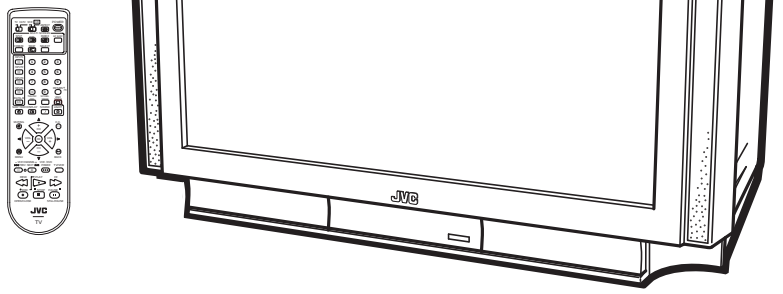
JVC

SERVICE MANUAL

COLOR TELEVISION

AV-34WP84/ZA

BASIC CHASSIS
SB4



I'Art PRO

BBE

TABLE OF CONTENTS

1 PRECAUTION 1-3
2 SPECIFIC SERVICE INSTRUCTIONS 1-4
3 DISASSEMBLY 1-10
4 ADJUSTMENT 1-16
5 TROUBLESHOOTING 1-49

COPYRIGHT © 2003 VICTOR COMPANY OF JAPAN, LIMITED

No.52170
2003/10

SPECIFICATION

Items		Contents
Dimensions (W × H × D)		91.2cm × 62.4cm × 59.3cm (36" × 24-6/4" × 23-3/8")
Mass		74.0 kg (162.8 lbs)
TV RF System		CCIR (M)
Color System		NTSC
Sound System		BTSC (Multi Channel Sound)
TV Receiving Channels and Frequency	VHF Low VHF High UHF CATV	02ch~06ch : 54MHz~88MHz 07ch~13ch : 174MHz~216MHz 14ch~69ch : 470MHz~806MHz 54MHz~804MHz Low Band : 02~06, A-8 by 02~06&01 High Band : 07~13 by 07~13 Mid Band : A~I by 14~22 Super Band : J~W by 23~36 Hyper Band : W+1~W+28 by 37~64 Ultra Band : W+29~W+84 by 65~94, 100~125 Sub Mid Band : A4~A1 by 96~99
TV / CATV Total Channel		180 Channels
Intermediate Frequency	Video IF Sound IF	45.75 MHz 41.25 MHz (4.5MHz)
Color Sub Carrier		3.58 MHz
Power Input		AC120V , 60Hz
Power Consumption		229W (Max)
Picture Tube (Visible size)		Full-Flat type, Aspect ratio 16:9 (Wide screen) 80cm (34") (Diagonally) H:43.0cm × W:75.9cm (17" × 30")
High Voltage		32kV+1kV/-1.3kV (at zero beam current)
Speaker		10cm (4"), round type × 2 3cm × 10cm (1-1/2" × 4"), oval type × 2
Audio Power Output		10W × 10W
Antenna terminal (VHF/UHF)		F-type connector, 75Ω unbalanced, coaxial
Video / Audio input	S-Video [INPUT-1/3/4] Video Audio Component Video [INPUT-1/2] 1125i / 750p 525p / 525i	Mini-DIN 4 pin × 3 Y: 1V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 4 500mV (rms), High impedance, RCA pin jack × 8 RCA pin jack × 6 Y : 1V (p-p) (Sync signal: 0.35V(p-p), 3-value sync.), 75 Ω Pb/Pr : 0.35V(p-p), 75 Ω Y : 1V (p-p), Positive (Negative sync provided), 75 Ω Pb/Pr : 0.35V(p-p), 75 Ω
Digital-in	Video Audio	DVI-D 24-pin connector × 1 (Digital-input terminal is not compatible with computer signal) 500mV (rms), Low impedance, RCA pin jack × 2
Audio output	 Variable Fix	RCA pin jack × 2 More than 0 to 1000mV (rms) (+2.2dBs) 500mV(rms), (-4dBs), low impedance (400Hz when modulated 100%)
Subwoofer output		More than 0 to 1000mV (rms) (+2.2dBs), low impedance (400Hz when modulated 100%), RCA pin jack × 1
Speaker input		16Ω, 20W (rms)
AV compulink III		3.5mm mini jack × 1
Remote Control Unit		RM-C11G (AA/R6/UM-3 battery × 2)

Design & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 SAFETY PRECAUTIONS

(1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual**. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

(4) **Use isolation transformer when hot chassis.**
The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.

(5) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED (NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND.
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.

(6) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See B1 POWER SUPPLY check).

(7) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

(8) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

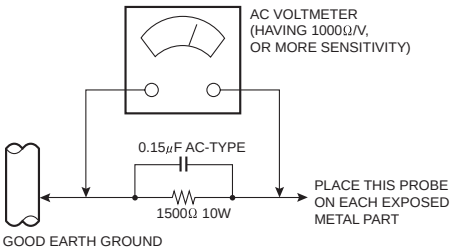
(9) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(10) **Isolation Check (Safety for Electrical Shock Hazard)**
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

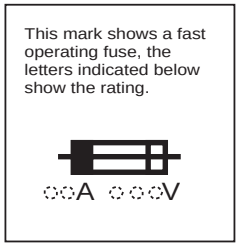
a) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.
(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

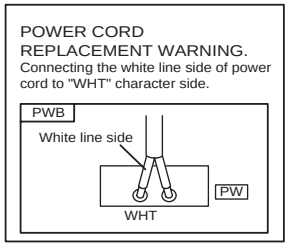
b) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000Ω per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



(11) **High voltage hold down circuit check.**
After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.See item **"How to check the high voltage hold down circuit"**.





SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

■ Multi screen function
- POP (Picture out Picture)
  Back programs can be seen at once. Three programs are displayed on screen right-hand side besides the program (VHF/ UHF/ CATV) received now.
- INDEX
  A favorable program can be selected from the 12 previews on the screen.
- SPLIT
  Different images, such as a program and video, can be simultaneously seen on two screens.

■ Provided with 2 tuners and 2 aspect (16:9 & 4:3) mode.
■ Multifunctional remote control permits picture adjustment.
■ The CH.GUARD function prevents the specific channels from being selected, unless the "ID number" is entered.
■ I2C bus control utilizes single chip ICs.
■ Adoption of the VIDEO STATUS function.
- The VIDEO STATUS key gives you a choice of 4 picture display settings, including a display of your own preferences.

STANDARD → DYNAMIC → THEATER → GAME

■ Digital-in
To receive digital broadcasts.
Digital-in will display when any picture signal (480i/ 480p, 720p/ 1080i) in Digital-in is displayed.

■ Natural Cinema
Watching the movie or animation, press the Natural Cinema to adjust the out line of the images to make thin more sharp.

■ Built-in V-CHIP system.
- This TV is equipped with V-CHIP technology which enables TV parental guidelines and movie guideline controls.

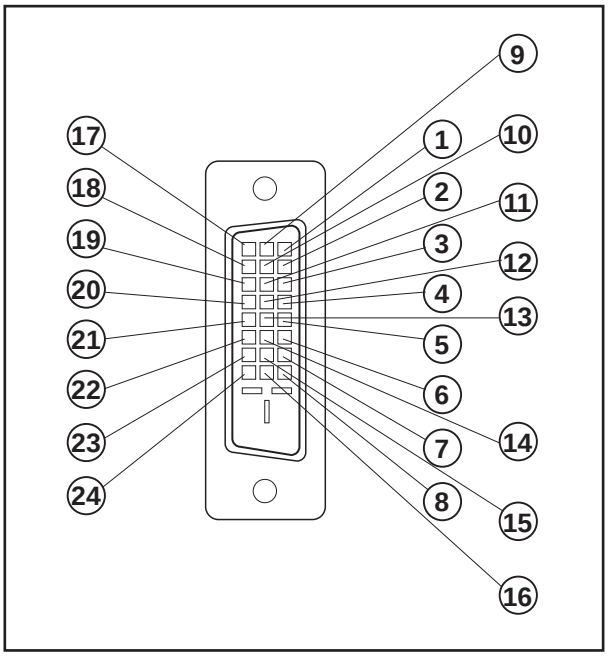
■ Closed-caption broadcasts can be viewed.
■ Built-in MTS (Multi-channel Television Sound) system.
In addition to mono or stereo sound, an MTS broadcast may also include a Second Audio Program (SAP).
■ Built-in A.H.S system & BBE sound system.
■ S-VIDEO input terminal for taking best advantage of Super VHS.
■ 3D Digital comb filter improves picture quality.
■ Plug-in menu
The plug-in menu comes up automatically when you first turn on the TV after plugging it in.

2.2 DIGITAL-IN TERMINAL FUNCTIONS

PIN NAME

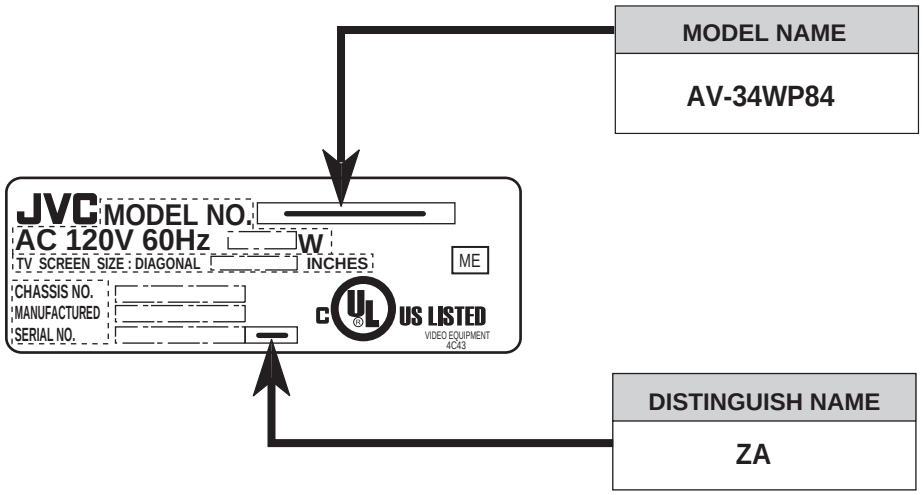
Pin No.	Pin name	Pin No.	Pin name
1	RX2-	14	5V
2	RX2+	15	GND
3	GND2/ 4	16	HTPLG
4	RX4-	17	RX0-
5	RX4+	18	RX0+
6	SCL	19	GND0/5
7	SDA	20	RX5-
8	NC	21	RX5+
9	RX1-	22	GNDC
10	RX1+	23	TXC+
11	GND1/3	24	TXC-
12	RX3-		
13	RX3+		

PIN ASSIGNMENT



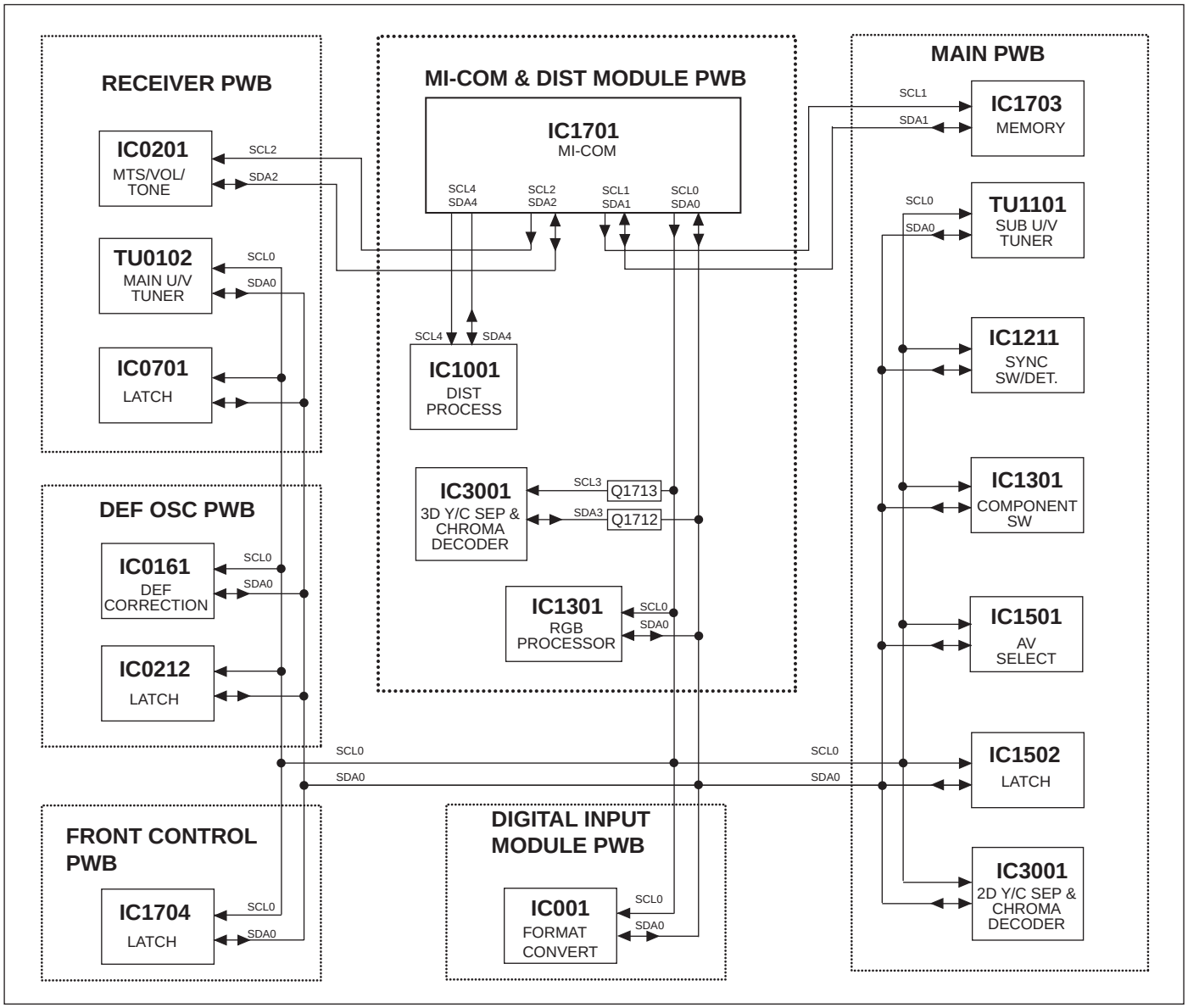
2.3 HOW TO IDENTIFY MODELS

● How to recognize from the appearance of the model concerned is written below. Please distinguish from several contents currently printed on the rating label.



2.4 TECHNICAL INFORMATION

2.4.1 SYSTEM BLOCK DIAGRAM



2.4.2 MAIN MICRO COMPUTER (CPU) FUNCTION

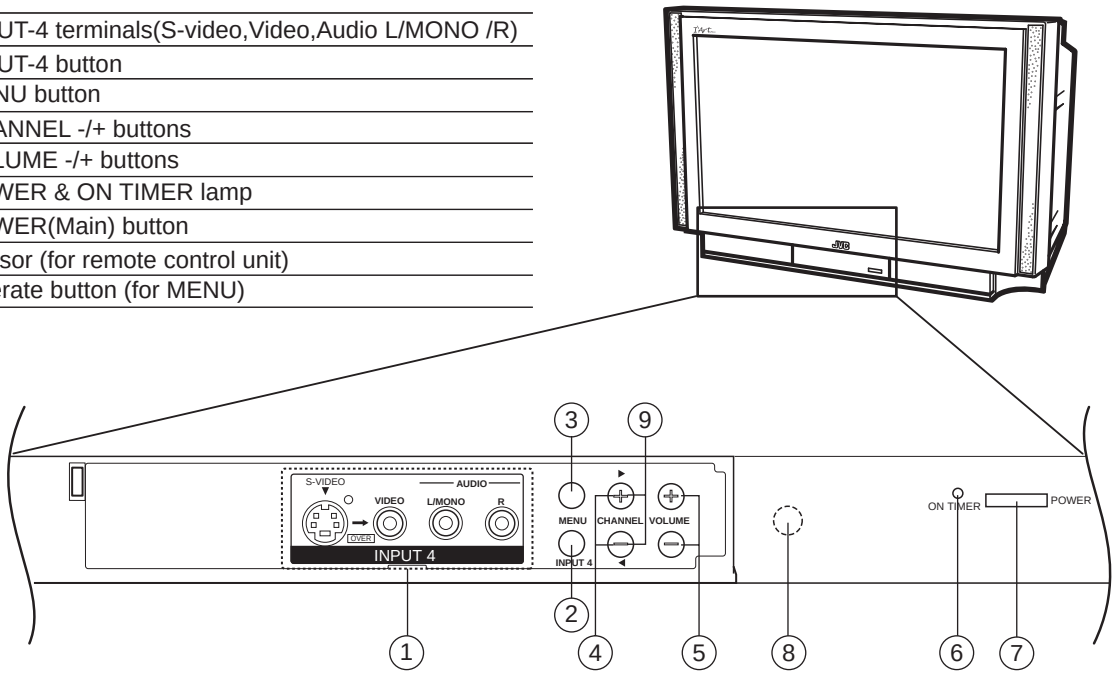
(MN102H75KPD)

Pin No.	Pin name	I/O	Function	Pin No.	Pin name	I/O	Function
1	NC	O	NC	43	CLK_SW	O	IP clock switch control
2	/VSYNC	I	V. sync for OSD	44	LED_ON_TIMER	O	NC
3	LB_PRO	I	Low B protect detection [Detect : H]	45	NC	O	NC
4	NC	-	NC	46	NC	I	NC
5	/RST	I	CPU reset [Reset : L]	47	SBT1	I	Use for on board writing [for factory]
6	NC	O	NC	48	NC	O	NC
7	/TEST	I	Operation test for CPU	49	NC	O	NC
8	YS	O	Ys (blanking) for OSD	50	NC	O	NC
9	SDA4	I/O	I^2C bus (data) for DIST	51	NC	O	NC
10	NC	O	NC	52	ABL/ACL	O	ABL/ACL control
11	A_MUTE	O	Audio muting [Muting :H]	53	CHROME	O	Chroma / Gamma control
12	/HSYNC	I	H.sync for OSD	54	DC_COTL	O	Black level DC reproduce control
13	NC	O	NC	55	NC	O	NC
14	OSDXI	I	Keep for OSD oscillation	56	NC	O	NC
15	OSDXO	I	Keep for OSD oscillation	57	AFC_1	I	Sub AFT voltage
16	SDA2	I/O	I^2C bus(data) for MTS	58	/LOB_POW	O	LOB power control [Power on : L]
17	AC_IN	I	AC(60Hz) for timer clock	59	/COMPLINK	I	AV compulink Ⅲcontrol
18	SCL2	O	I^2C bus (clock) for MTS	60	/POWERGOOD	I	Power condition check
19	/TU_POW	O	NC	61	/MECA_ON	I	Power SW interrupt [Pushing :L]
20	VCOI	I	LPF	62	/MAIN_POW	O	Main power control [Power on : L]
21	PDO	O	LPF	63	NC	-	NC
22	/IP_RESET	O	Reset for DIST [Reset : L]	64	/B1_POW	O	B1 power control [Power on : L]
23	YM	O	YM (transparence) for OSD	65	AFC2	I	Main AFT voltage
24	B	O	OSD blue	66	X-RAY	I	X-ray protect detection [Protect : 0.7v]
25	LED_POWER	O	Lighting for POWER LED [Lighting : H]	67	NC	I	NC
26	G	O	OSD green	68	KEY2	I	Key scan for front key (CH+,Vol-/+)
27	R	O	OSD red	69	KEY1	I	Key scan for front key (Menu,CH-)
28	VREF	I	Reference voltage for OSD	70	SCL1	O	I^2C bus (clock) for main memory
29	IP_ERR	I	AMDP program load error detection	71	SDA1	I/O	I^2C bus (data) for main memory
30	IREF	I	Reference current for OSD	72	REMO	I	Remote control
31	COMP	I	Phase adjust for OSD	73	NC	O	NC
32	AVDD	I	+3.3V	74	VSS	I	GND
33	CLL	I	For Low clamp level	75	OSC2	O	System clock oscillation (4MHz)
34	VREFLS	I	Reference voltage in for sub CCD	76	OSC1	I	System clock oscillation (4MHz)
35	SUB_CCD	I	Composite video for sub CCD	77	VDD	I	+3.3V
36	NC	-	NC	78	SCL0	O	I^2C bus (clock) for generally
37	VSS	I	GND	79	NC	O	NC
38	MAIN_CCD	I	Composite video for main CCD	80	SDA0	I/O	I^2C bus (data) for generally
39	VREFHS	I	Reference voltage in for main CCD	81	NC	O	NC
40	CLH	I	For High clamp level	82	NC	I	NC
41	VDD	I	+3.3V	83	NC	-	NC
42	SCL4	O	I^2C bus (clock) for DIST	84	P MUTE	O	Picture muting

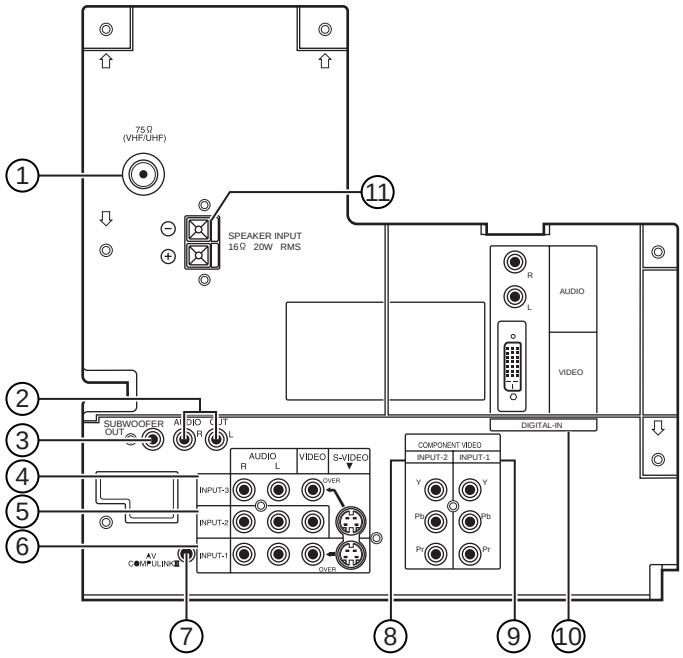
2.5 FUNCTIONS

● FRONT PANEL

① INPUT-4 terminals(S-video,Video,Audio L/MONO /R)
② INPUT-4 button
③ MENU button
④ CHANNEL -/+ buttons
⑤ VOLUME -/+ buttons
⑥ POWER & ON TIMER lamp
⑦ POWER(Main) button
⑧ Sensor (for remote control unit)
⑨ Operate button (for MENU)

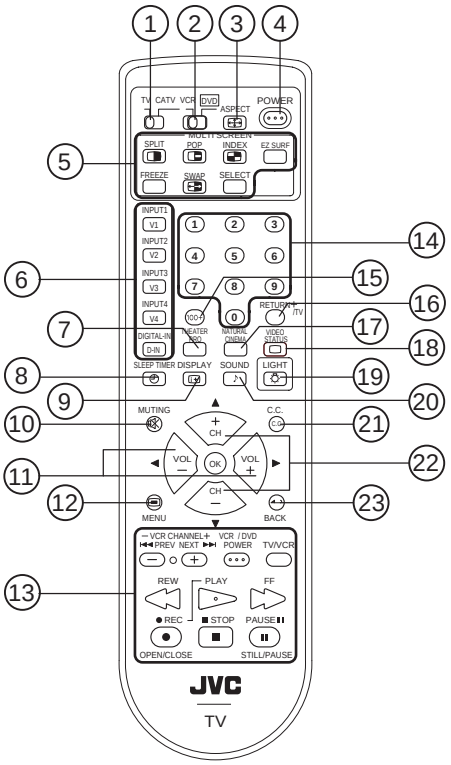


● AV TERMINAL (REAR)



① Antenna (VHF/UHF) terminal
② AUDIO OUT (L/R) terminal
③ SUBWOOFER OUT terminal
④ INPUT-3 terminal (S-video / Video /Audio L/R)
⑤ INPUT-2 terminal (Video/Audio L/R)
⑥ INPUT-1 terminal (S-video / Video /Audio L/R)
⑦ AV COMPULINK Ⅲ terminal
⑧ COMPONENT VIDEO INPUT-2 terminal (Y/P_b/P_r)
⑨ COMPONENT VIDEO INPUT-1 terminal (Y/P_b/P_r)
⑩ DIGITAL-IN terminal [Video(DVI 24pin), Audio L/R]
⑪ SPEAKER INPUT terminal

● REMOTE CONTROL (RM-C11G)



1. TV / CATV switch
2. VCR / DVD switch
3. ASPECT key: ↱PANORAMA→CINEMA→FULL→REGULAR┐
4. POWER key
5. MULTI SCREEN key:
   SPLIT key: 2 screen mode can be displayed.
   POP key: 3 separate pictures can be displayed on the right side of the main picture.
   INDEX key: 12 screen mode can be displayed.
   EZ SURF key: Back program can be displayed.
   FREEZ key: The still picture can be displayed.
   SWAP key: In SPLIT mode, the channel displayed in the split screen window can be exchanged for the main screen.
   SELECT key: The picture can be selected while viewing POP or SPLIT screen.
6. Input select keys:
   (INPUT1, INPUT2, INPUT3, INPUT4, DIGITAL-IN)
7. THEATER PRO key
8. SLEEP TIMER key: ↱0→15→30 ····· →165→180┐
9. DISPLAY key
10. MUTING key (memory key for SERVICE MENU)
11. VOL+/- & ◀/▶ (for SERVICE MENU) keys
12. MENU key
13. VCR / DVD control keys
14. Channel number keys
15. 100+ key
16. RETURN+/TV key
17. NATURAL CINEMA key: ↱AUTO→ON→OFF┐
18. VIDEO STATUS key: ↱STANDARD→DYNAMIC→THEATER→GAME┐
19. LIGHT key
20. SOUND key: A.H.S: ↱MOVIE→MUSIC→OFF┐ and BBE ON/OFF can be set
21. C.C. (CLOSED CAPTION) key: ↱OFF→CAPTION→TEXT┐
22. CH+/- & ▲/▼ (for SERVICE MENU) keys
23. BACK key

NOTE

The CH+/- keys and VOL+/- keys operate CHANNEL and VOLUME normally.
These keys are also used to navigate SERVICE MENU as the ▲/▼ and ◀/▶keys.

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

3.1.1 REMOVING THE REAR COVER

- Unplug the power supply cord.
  (1) Remove the 16 screws **[A]** as shown in Fig.1.
  (2) Remove the REAR COVER toward you.

NOTE:

When reinstalling the REAR COVER, carefully push it inward after inserting the chassis into the REAR COVER groove.

3.1.2 REMOVING THE AV TERMINAL BOARD

- Remove the REAR COVER.
  (1) Remove the 7 screws **[B]** as shown in Fig.1.
  (2) When you pull out the AV TERMINAL BOARD in the direction of arrow **[a]** as shown in Fig.1, it can be removed.

3.1.3 REMOVING THE CHASSIS

- Remove the REAR COVER.
  (1) Slightly raise the both sides of the CHASSIS by hand and remove the 2 claws under the both sides of the CHASSIS from the front cabinet.
  (2) Draw the CHASSIS backward along the rail in the arrow direction **[a]** as shown in Fig.1.
  (If necessary, take off the wire clamps, connectors etc.)

NOTE:

When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT SOCKET PWB and MAIN PWB or DEF & POWER PWB.

3.1.4 REMOVING THE CONTROL BASE

- Remove the REAR COVER.
  Remove the CHASSIS.
  (1) While pushing down the claws **[b]** as shown in Fig.2.
  (2) Remove the CONTROL BASE in the arrow direction marked **[c]**.
  (If necessary, take off the wire clamps, connectors etc.)

3.1.5 REMOVING THE DIGITAL INPUT MODULE PWB

- Remove the REAR COVER
- Remove the AV TERMINAL BOARD.
  (1) Remove the 2 screws **[C]** as shown in Fig.1.
  (2) Remove the DIGITAL INPUT MODULE PWB in the arrow direction **[d]**.

NOTE:

If necessary, take off the wire clamps, connectors etc.

3.1.6 REMOVING THE DOME SPEAKER BOX

- Remove the REAR COVER.
  (1) Remove the 2 screws **[D]** as shown in Fig.1.
  (2) Remove the DOME SPEAKER BOX toward you.
  (3) Follow the same steps when removing the other hand speaker.

3.1.7 REMOVING THE SPEAKER / SPEAKER HOLDER

- Remove the REAR COVER.
- Remove the DOME SPEAKER BOX
  (1) Remove the 2 screws **[E]** as shown in Fig.1.
  (2) Remove the SPEAKER HOLDER toward you.
  (3) Remove the 2 screws **[F]** as shown in Fig.1.
  (4) Draw the SPEAKER toward you.
  (5) Follow the same steps when removing the other hand SPEAKER.

3.1.8 CHECKING THE PW BOARD

- To check the backside of the circuit board.
  (1) Pull out the CHASSIS. (Refer to REMOVING THE CHASSIS).
  (2) Erect the CHASSIS vertically so that you can easily check the backside of the PW Board.

CAUTION:

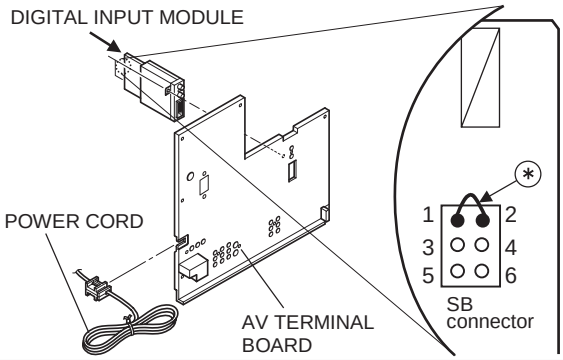
- When erecting the CHASSIS, be careful so that there will be no contact with other PWB.
- Before turning the power on, make sure that the CRT earth wire and other connectors are properly connected.

3.1.9 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

CAUTION AT DISASSEMBLY

AV-34WP84/ZA	**34WP84CP-S**	SSB-7976A-M2	⊛ wire WJJ0247-001A



- Prior to disassembly, unplug the power cord from the wall outlet without fail. (Turn the power “off”.)
- Short the SB connector (1) pin and (2) pin of the digital input unit. (At the time of assembling)
- Before the rear cover is inserted into the cabinet, release the short-circuit between the SB connector (1) pin and (2) pin of the digital input unit.
- After releasing the short-circuit between the SB connectors, do not turn the power on until the rear cover is inserted into the cabinet.

* Negligence in carrying out the above steps may cause the inactivation of the TV.

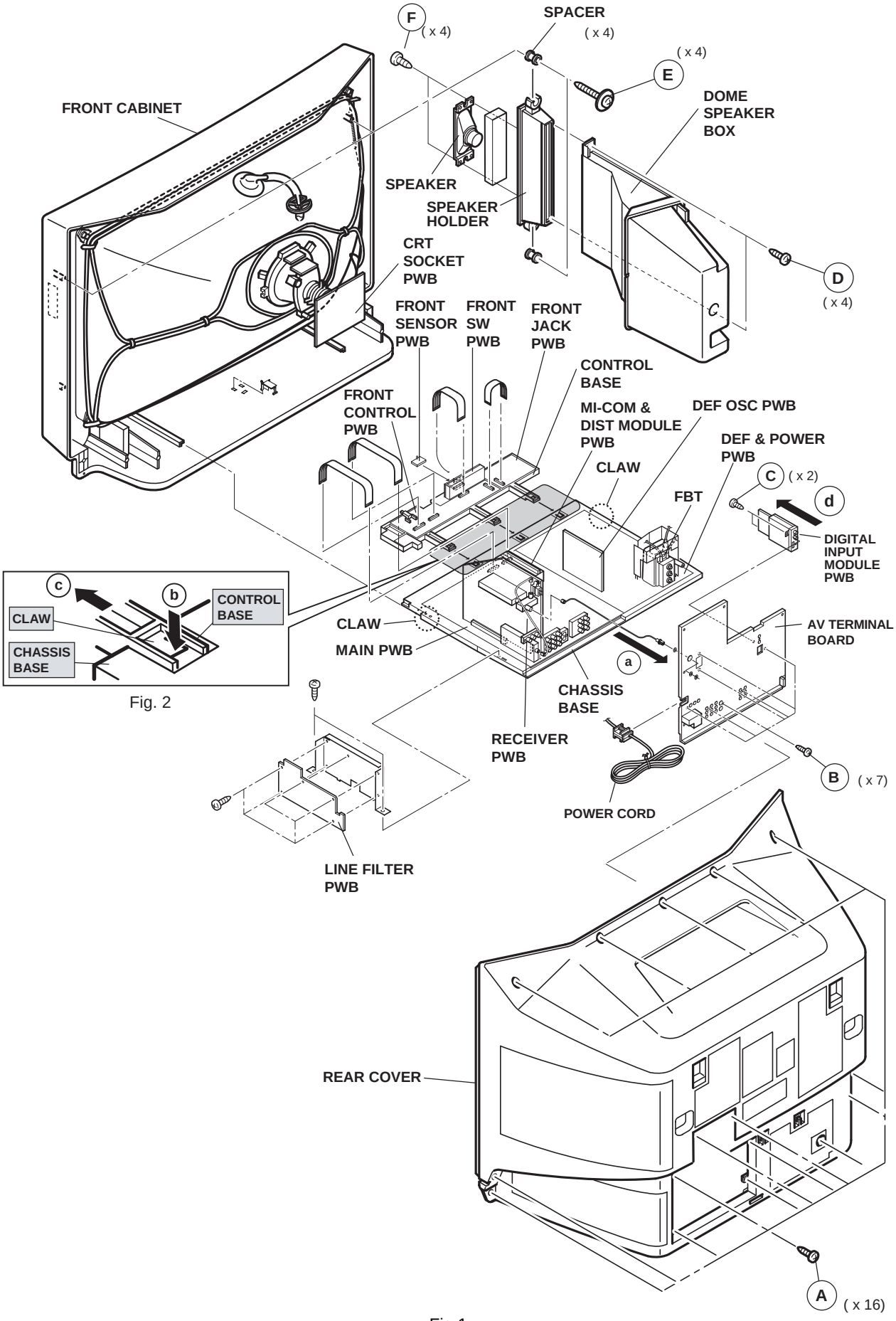

F
(x 4)
SPACER
(x 4)
(x 4)
E
FRONT CABINET
DOME SPEAKER BOX
SPEAKER
SPEAKER HOLDER
CRT SOCKET PWB
D
(x 4)
FRONT SENSOR PWB
FRONT SW PWB
FRONT JACK PWB
CONTROL BASE
FRONT CONTROL PWB
MI-COM & DIST MODULE PWB
DEF OSC PWB
DEF & POWER PWB
CLAW
C
(x 2)
d
FBT
DIGITAL INPUT MODULE PWB
c
b
CONTROL BASE
CLAW
CHASSIS BASE
CLAW
MAIN PWB
a
AV TERMINAL BOARD
CHASSIS BASE
RECEIVER PWB
B
(x 7)
POWER CORD
LINE FILTER PWB
REAR COVER
A
(x 16)

Fig. 2

Fig.1

3.1.10 REMOVING THE CRT (PICTURE TUBE)

NOTE:

- Replacement of the CRT should be performed by 2 or more persons.
- After removing the REAR COVER, CHASSIS etc.,

(1) Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig. 3).

(2) While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig. 3.

(3) Remove 4 screws marked by arrows with a box type screwdriver as shown in Fig. 4.

NOTE:

Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.

(4) After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front
surface of the cabinet) shown in Fig. 5.

NOTE:

- The CRT should be assembled according to the opposite sequence of its dismounting steps.
- The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm.

COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.6.Wipe around the anode button with clean and dry cloth. (Fig.6)Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not sticks to the anode button. (Fig.7)

CAUTION FOR DEGAUSSING WORKS

Whenever degaussing works are required due to distorted images and colors caused by the replacement of the CRT or other external magnetic forces, self-degaussing (internal degaussing) should be carried out without fail instead of degaussing the monitor from the outside.
Because of the characteristics of the CRT used in this monitor , the distorted images and colors may worsen if degaussing the monitor from the outside has been performed.
Even if external degaussing works have been carried out, self-degaussing should be performed by turning the power on the monitor.
When you want to perform self-degaussing of the monitor whose power is already turned on, turn of f the power and wait for about 10 minutes before turning the power on the monitor again for self-degaussing.

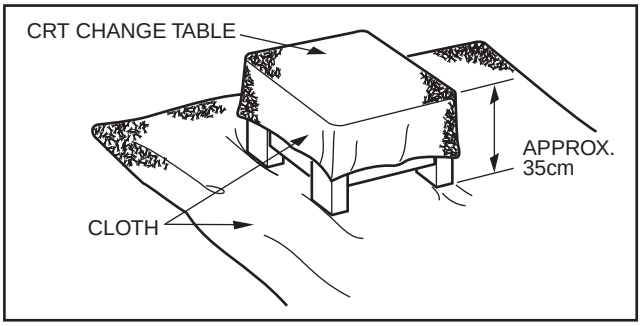


Fig.3

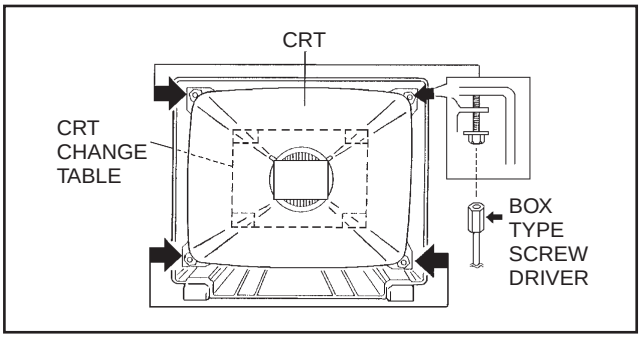


Fig.4

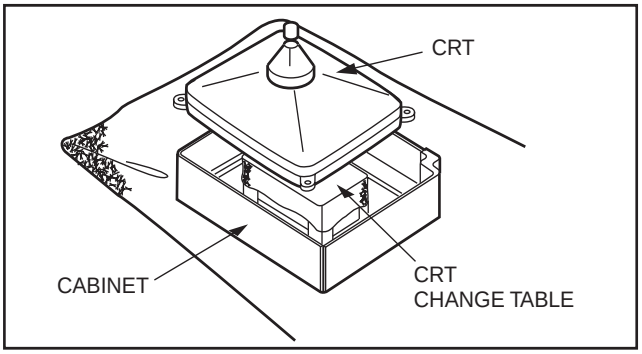


Fig.5

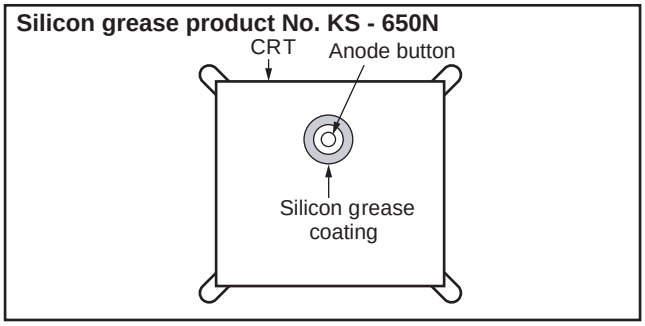


Fig.6

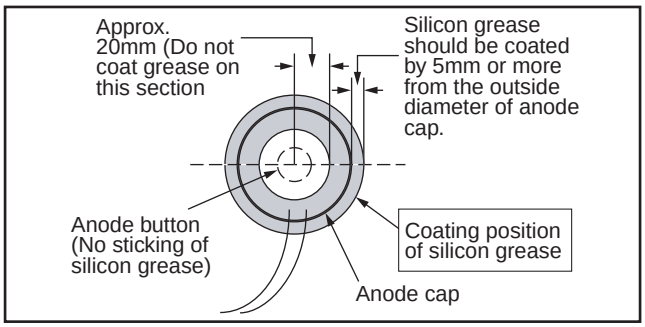


Fig.7

3.2 MEMORY IC REPLACEMENT

3.2.1 MEMORY IC

This model uses a memory IC.
This memory IC stores data for proper operation of the video and deflection circuits.
When replacing the memory IC, be sure to use an IC containing this (initial value) data.

3.2.2 MEMORY IC REPLACEMENT PROCEDURE

(1) Power off
Switch the power off and disconnect the power cord from the wall outlet.
(2) Replace the memory IC
Initial value must be entered into the new IC.
(3) Power on
Connect the power cord to the wall outlet and switch the power on.
(4) SERVICE MENU setting
Before entering the SERVICE MENU, confirm that the setting of TV/CATV SW of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR/DVD SW of the REMOTE CONTROL UNIT is at the "VCR" side. If the switches have not been properly set, you cannot enter the SERVICE MENU.
a) Press [SLEEP TIMER] key and while the indication of SLEEP TIMER 0 MIN is being displayed, press [DISPLAY] key and [VIDEO STATUS] key on the remote control unit (Fig.2) simultaneously.
b) The SERVICE MENU screen as shown in Fig.1 is displayed.
c) Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1).
Refer to the SERVICE ADJUSTMENT for setting.
d) Press the [BACK] key twice to return normal screen.
(5) Receive channel setting
Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.
(6) User settings
Check the user setting items according to the steps described in the after page.
Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.

SERVICE MENU

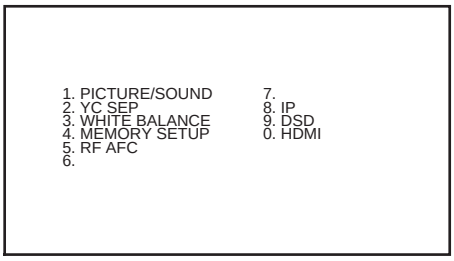


Fig.1

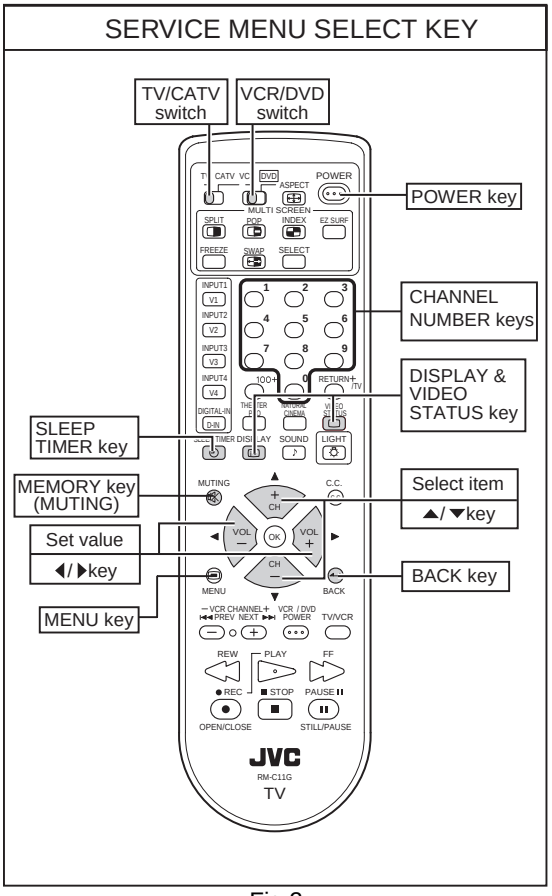


Fig.2

3.3 FACTRY SETTING VALUE

3.3.1 SERVICE MENU SETTING MODE

Setting Item	Settings	Item No.
1.PICTURE/SOUND (SOUND AND PICTURE SETTING)		
Sound circuits (A)	Fixed	A01~A27
Video circuits (S)	Adjust	S01~S99
Deflection circuits (D)	Adjust	D01~D32
Factory setting items (F)	Adjust	F01~F70
2.YC SEP		
YC separation setting	Fixed	YCM001~YCS114
	Fixed	YCM001~YCS114
3.WHITE BALANCE		
White balance adjustment	Adjust	BR DRV R, DRV B CUT R, CUT G, CUT B
4.MEMORY SETUP		
Memory data edit	Non adjust	---

Setting Item	Settings	Item No.
5.RF AFC		
IF VCO adjustment	Adjust	Refer to adjustment Procedure
8.IP		
DIST processing setting	Fixed	IPA001~IPA042
9.DSD		
Digital super detail setting	Fixed	DSA001~DSA053
	Fixed	DSB001~DSB053
	Fixed	DSC001~DSC044
	Fixed	DSD001~DSD017
0.HDMI		
Digital input processing setting	Fixed	HDM001~HDM080
	Fixed	RHD001~RHD170

3.3.2 FACTORY SETTING

Setting item		Setting value	Setting item	Setting value
POWER CHANNEL VOLUME INPUT DISPLAY NATURAL CINEMA ASPECT MODE VIDEO STATUS		Off CABLE-02 10 TV Off AUTO REGULAR DYNAMIC	ON / OFF TIMER	NO
SOUND	A.H.S	OFF	TV SPEAKER AUDIO OUT CENTER CH INPUT DIGITAL-IN NOISE MUTING FRONT PANEL LOCK V1 SMART INPUT	ON FIX NO SIZE 1 ON OFF OFF
	BBE	ON		
SPLIT SOURCE		Left side: CA-02 Right side: CA-04 Left side: CA-02	LANGUAGE CLOSED CAPTION AUTO SHUT OFF XDS ID TILT CORRECTION PURITY	ENG OFF (CC1 / T1) OFF OFF Center Center
POP SOURCE		Right upper corner: CA-04 Right center side: CA-05 Right bottom corner: CA-07		
TINT COLOR PICTURE BRIGHT DETAIL		Refer to the following table	V-CHIP SET LOCK CODE AUTO DEMO	OFF (0000) OFF
COLOR TEMPERATURE				
DIG. NOISE CLEAR				
VSM(Velocity scan modulation)		ON		
BASS TREBLE BALANCE MTS		Center (00) Center (00) Center (00) STEREO		

NTSC/ 480i / 480p system

Item	Setting value						
	TINT	COLOR	PICTURE	BRIGHT	DETAIL	COLOR TEMPERATURE	DIGI. NOISE CLEAR
STANDARD	00	00	00	00	00	LOW	OFF
DYNAMIC	00	00	+30	00	+30	HIGH	OFF
THEATER	00	00	00	00	00	LOW	OFF
GAME	00	00	-10	00	00	HIGH	OFF

1080i / 720p system

Item	Setting value						
	TINT	COLOR	PICTURE	BRIGHT	DETAIL	COLOR TEMPERATURE	DIGI. NOISE CLEAR
STANDARD	00	00	00	00	00	LOW	OFF
DYNAMIC	00	00	+30	00	00	HIGH	OFF
THEATER	00	00	00	00	00	LOW	OFF
GAME	00	00	-10	00	00	HIGH	OFF

3.4 REPLACEMENT OF CHIP COMPONENT

3.4.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

3.4.2 SOLDERING IRON

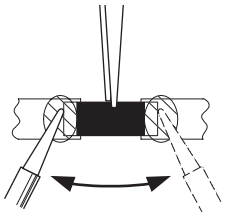
(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

3.4.3 REPLACEMENT STEPS

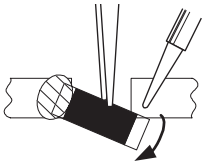
1. How to remove Chip parts

[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



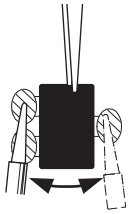
(2) Shift with the tweezers and remove the chip part.



[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.

(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



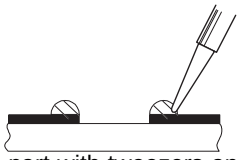
NOTE :

After removing the part, remove remaining solder from the pattern.

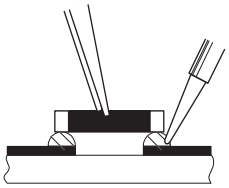
2. How to install Chip parts

[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

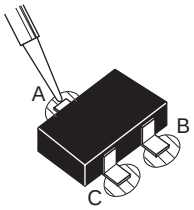


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

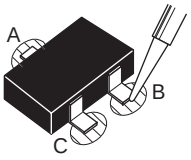


[Transistors, diodes, variable resistors, etc.]

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



SECTION 4
ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

(1) **You can make the necessary adjustments for this unit with either the Remote Control Unit or with the adjustment tools and parts as given below.**
(2) **Adjustment with the Remote Control Unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.**
(3) Make sure that AC power is turned on correctly.
(4) Turn on the power for set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
(5) Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
(6) **Never touch any adjustment setting value, which are not specified in the list for this adjustment.**
(7) Presetting before adjustment.
Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

Setting item	Setting position
VIDEO STATUS	STANDARD
TINT, COLOR, PICTURE, BRIGHT, DETAIL	Center (00)
COLOR TEMPERATURE	LOW
DIG. NOISE CLEAR	OFF
NATURAL CINEMA	AUTO
BASS, TREBLE, BALANCE	Center (00)
A.H.S	OFF
BBE	ON
ASPECT MODE	16:9

CAUTION

Never change the initial setting value any adjustments **except** for those that are designated in the adjustment procedures.
In case where you have made undesignated adjustments by mistake, **never press** the **MUTING** key on the remote control unit.
Whenever you had **not pressed** the **MUTING** key, you would be able to recover the initial value by switching the **POWER SW** (on/off) key.

4.2 MEASURING INSTRUMENT AND FIXTURES

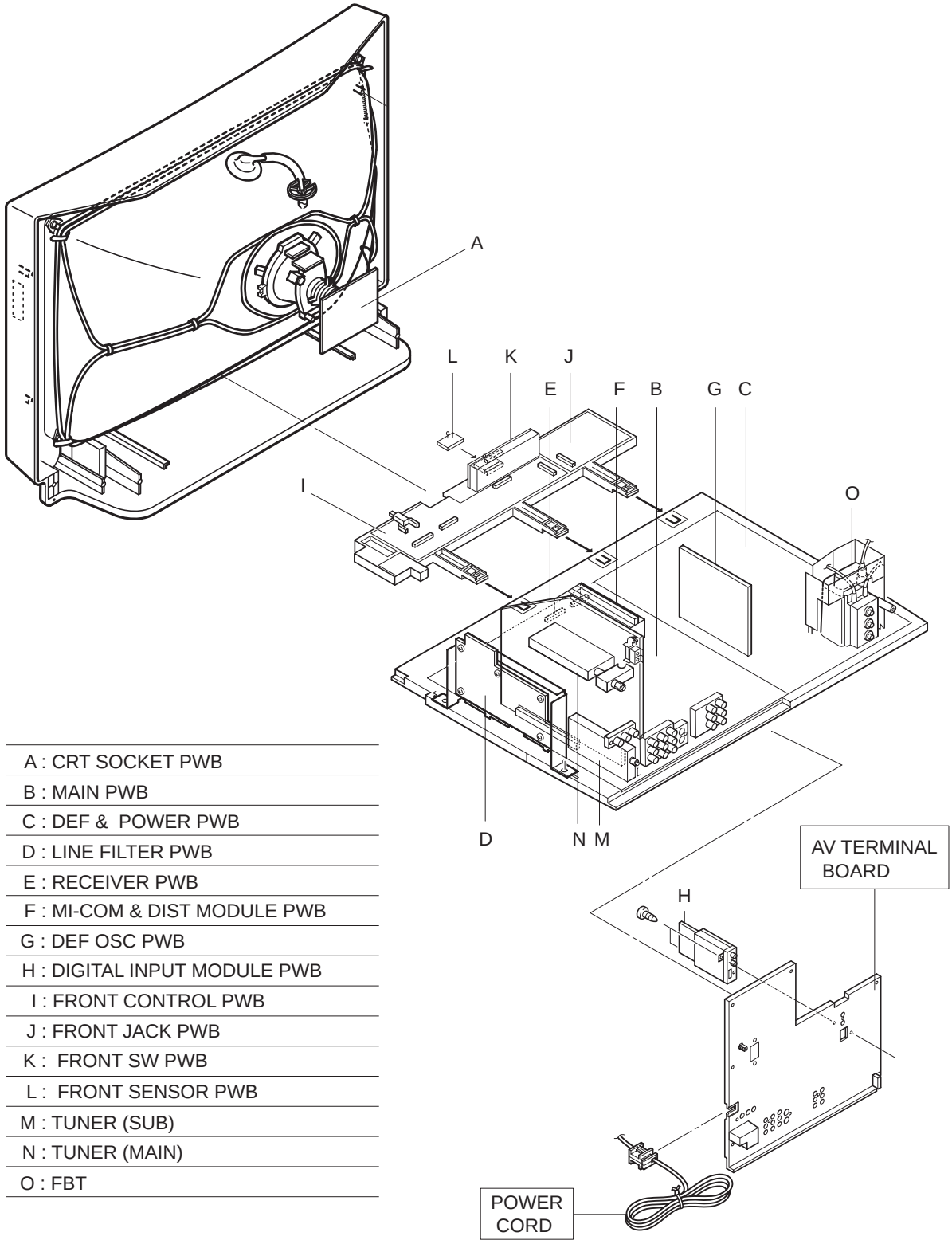
(1) DC voltmeter (or digital voltmeter)
(2) Oscilloscope
(3) Frequency counter
(4) Signal generator (Pattern generator)
[NTSC (480i)/480p/720p/1080i/DIGITAL]
(5) TV audio multiplex signal generator
(6) Remote control unit

4.3 ADJUSTMENT ITEMS

	Adjustment items
1:	B1 POWER SUPPLY
2:	FOCUS
3:	HORIZONTAL FREQUENCY
4:	DEFLECTION CIRCUIT
	V. POSITION / V. SIZE / V. LINEARITY adjustment
	H. WIDTH / H.POSITION / SIDE PIN / TRAPEZIUM adjustment
5:	VIDEO CIRCUIT
	WHITE BALANCE (Low Light & High Light) adjustment
	SUB BRIGHT / SUB CONTRAST adjustment
	SUB COLOR / SUB TINT / B-Y GAIN adjustment
6:	MTS CIRCUIT

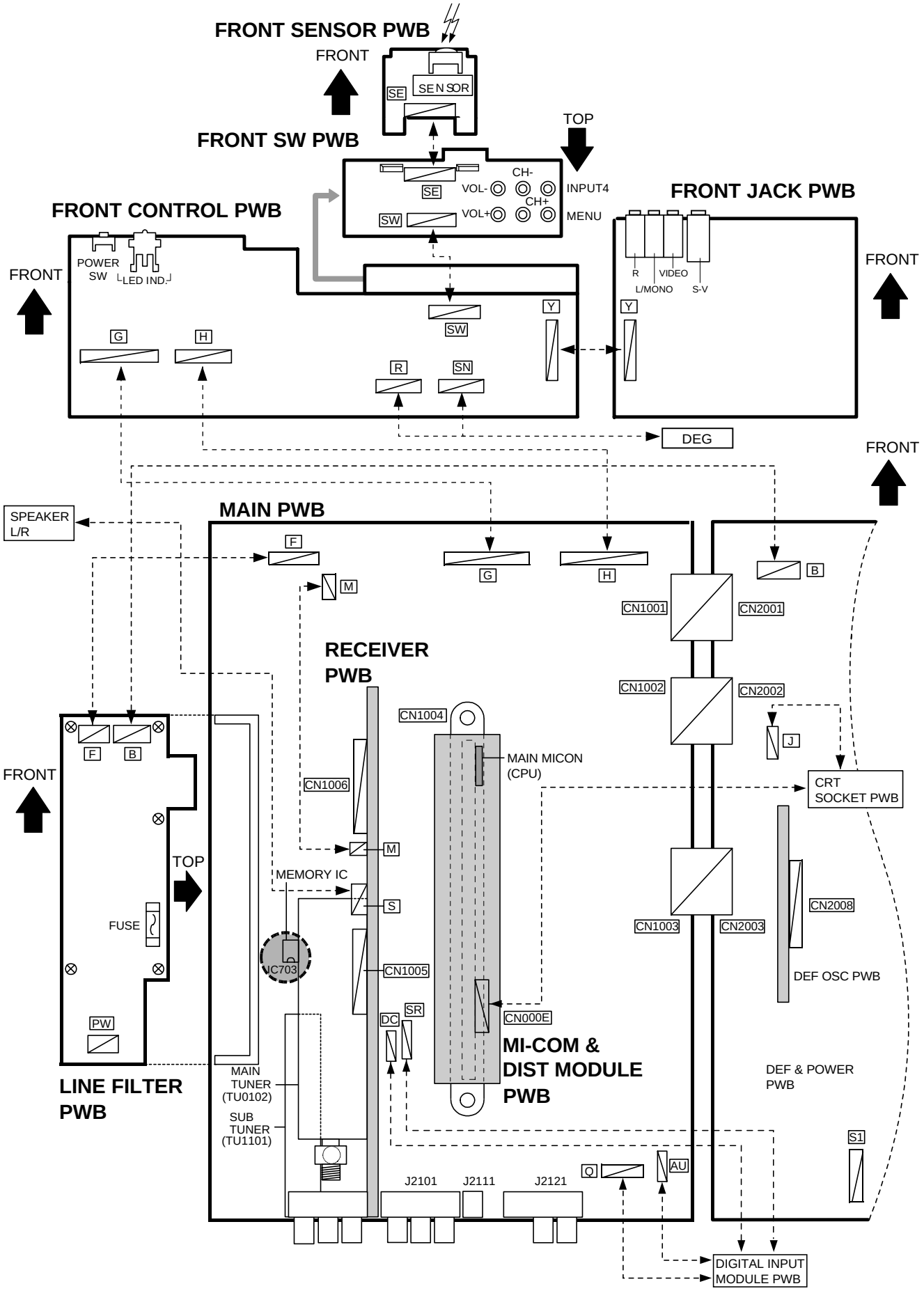
4.4 ADJUSTMENT LOCATIONS / WIRING

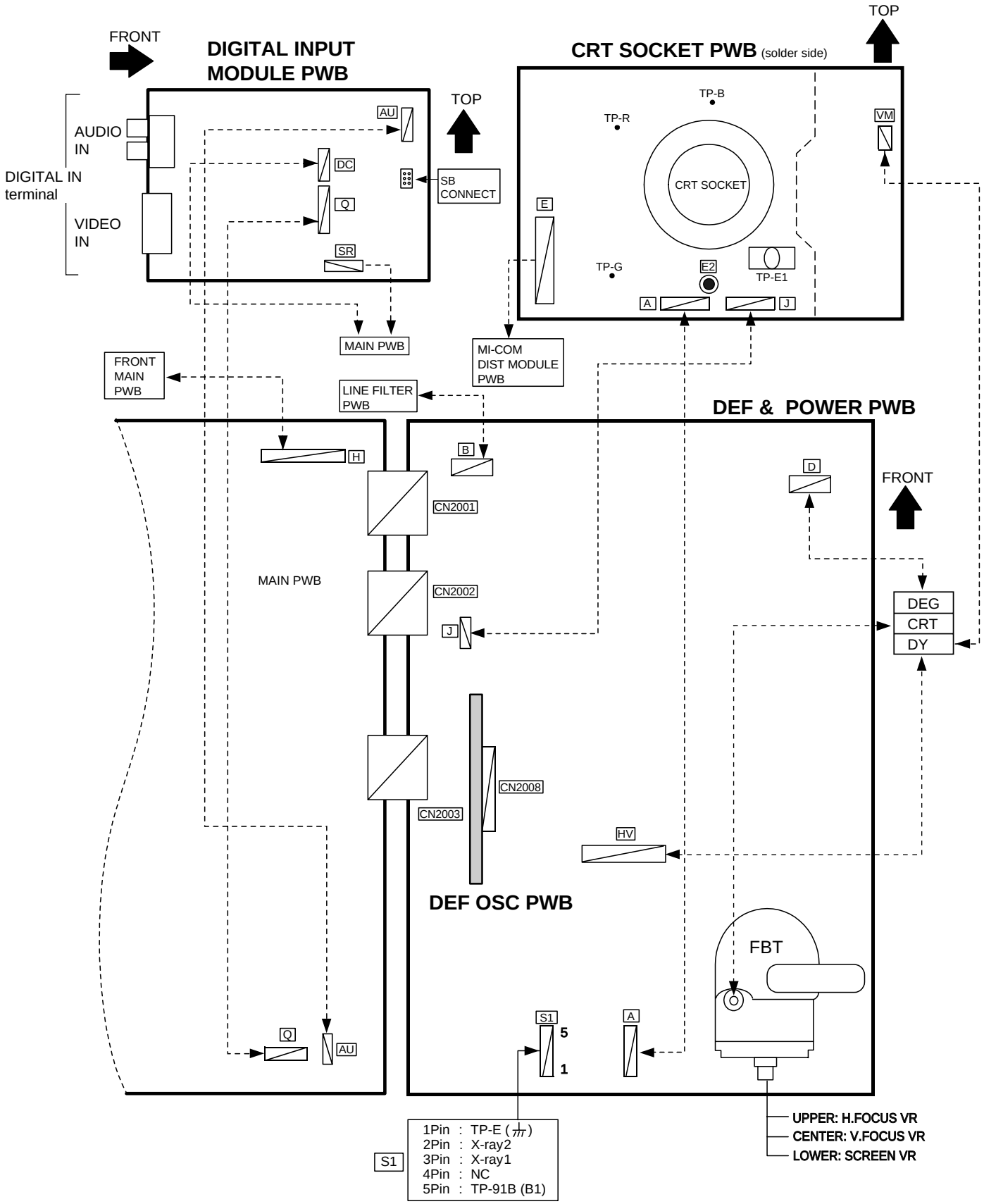
4.4.1 MAIN PARTS (PWB) LOCATION



A : CRT SOCKET PWB
B : MAIN PWB
C : DEF & POWER PWB
D : LINE FILTER PWB
E : RECEIVER PWB
F : MI-COM & DIST MODULE PWB
G : DEF OSC PWB
H : DIGITAL INPUT MODULE PWB
I : FRONT CONTROL PWB
J : FRONT JACK PWB
K : FRONT SW PWB
L : FRONT SENSOR PWB
M : TUNER (SUB)
N : TUNER (MAIN)
O : FBT

4.4.2 ADJUSTMENT LOCATION / WIRING DIAGRAM




FRONT
DIGITAL INPUT MODULE PWB
TOP
CRT SOCKET PWB (solder side)
TOP
AUDIO IN
DIGITAL IN terminal
VIDEO IN
AU
DC
Q
SR
SB CONNECT
TP-B
TP-R
VM
CRT SOCKET
E
TP-G
E2
TP-E1
A
J
MAIN PWB
MI-COM DIST MODULE PWB
FRONT MAIN PWB
LINE FILTER PWB
DEF & POWER PWB
H
B
D
FRONT
CN2001
MAIN PWB
CN2002
J
DEG
CRT
DY
CN2008
CN2003
HV
DEF OSC PWB
FBT
Q
AU
S1
5
1
A
S1
1Pin : TP-E (⏚)
2Pin : X-ray2
3Pin : X-ray1
4Pin : NC
5Pin : TP-91B (B1)
UPPER: H.FOCUS VR
CENTER: V.FOCUS VR
LOWER: SCREEN VR

4.5 BASIC OPERATION OF SERVICE MENU

4.5.1 TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

4.5.2 SERVICE MENU ITEMS

In general, basic setting (adjustments) items or verifications are performed in the SERVICE MENU.

1.PICTURE / SOUND	This sets the setting values of the VIDEO/ AUDIO and DEFLECTION circuits.
2.YC SEP	This is used when the YC separation circuit is adjusted. **[Do not adjust]**
3.WHITE BALANCE	This sets the setting values of the Low Light and High Light.
4.MEMORY SETUP	This sets the setting values of the memory address. **[Do not adjust]**
5.RF AFC	This is used when the IF VCO is adjusted. **[Do not adjust]**
8.IP	This sets the setting value of the DIST process circuit. **[Do not adjust]**
9.DSD	This sets the setting value of the DSD (Digital Super Detail) circuit. **[Do not adjust]**
0.HDMI	This sets the setting value of the Digital input circuit. **[Do not adjust]**

4.5.3 BASIC OPERATION OF SERVICE MENU

(1) How to enter the SERVICE MENU

Before entering the SERVICE MENU, confirm that the setting of TV/CATV SW of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR/DVD SW of the REMOTE CONTROL UNIT is at the "VCR" side. If the switches have not been properly set, you cannot enter the SERVICE MENU.

a) Press the [SLEEP TIMER] key and set SLEEP TIMER for 0 min.

b) Before disappear the display of SLEEP TIMER settings, simultaneously press the [DISPLAY] key and [VIDEO STATUS] key of the remote control unit.

c) The SERVICE MENU screen will be displayed as shown Fig.1.

(2) SERVICE MENU screen selection

Press the [CHANNEL NUMBER] keys to select any of the items (Fig.1).

(3) Enter any setting

- 1. PICTURE/ SOUND

a) Select 1.PICTURE/SOUND with the [CHANNEL NUMBER] keys and press the [CH▲/▼] keys to select the setting items. Then the screen will be displayed as shown in figure in the sub sequent page.

b) Then the settings or verifications can be performed.

- Others

a) In order to select any of 2.YC SEP, 3.WHITE BALANCE, 4.MEMORY SETUP, 5.RF AFC, 8.IP, 9.DSD and 0.HDMI, press the [Channel number] keys from SERVICE MENU. The each screen will be displayed as shown in the figure in the sub sequent page.

b) Then the settings or verifications can be performed.

(4) Setting method

a) [CH▲/▼] keys
Select the SETTING ITEM.

b) [VOL◀/▶] keys
Adjust the setting value.

c) [MUTING] key
Stored (memorized) the setting value.

d) [BACK] key
Return to the previous screen.

(5) Releasing SERVICE MENU

a) After returning to the SERVICE MENU upon completion of the setting work, press the [BACK] key again.

SERVICE MENU

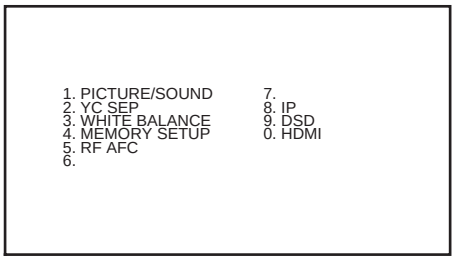
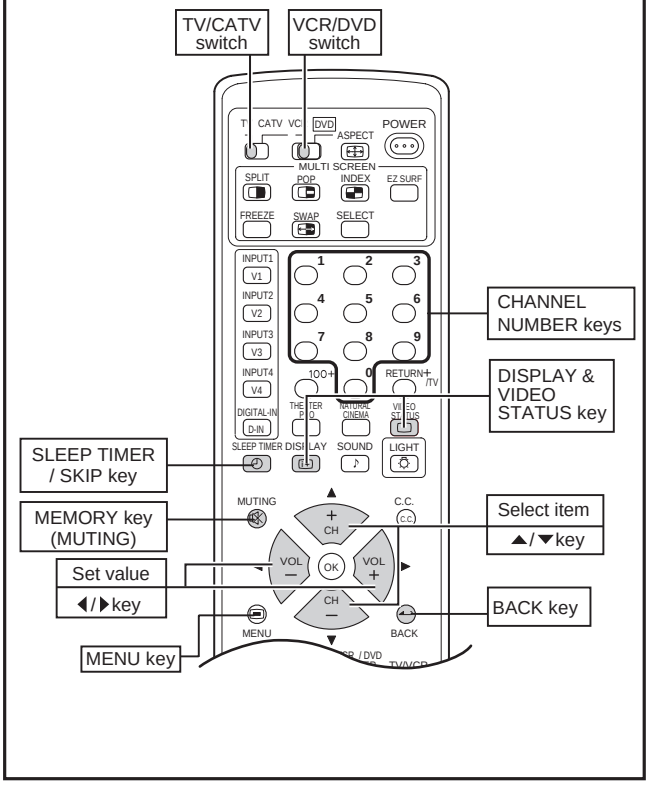
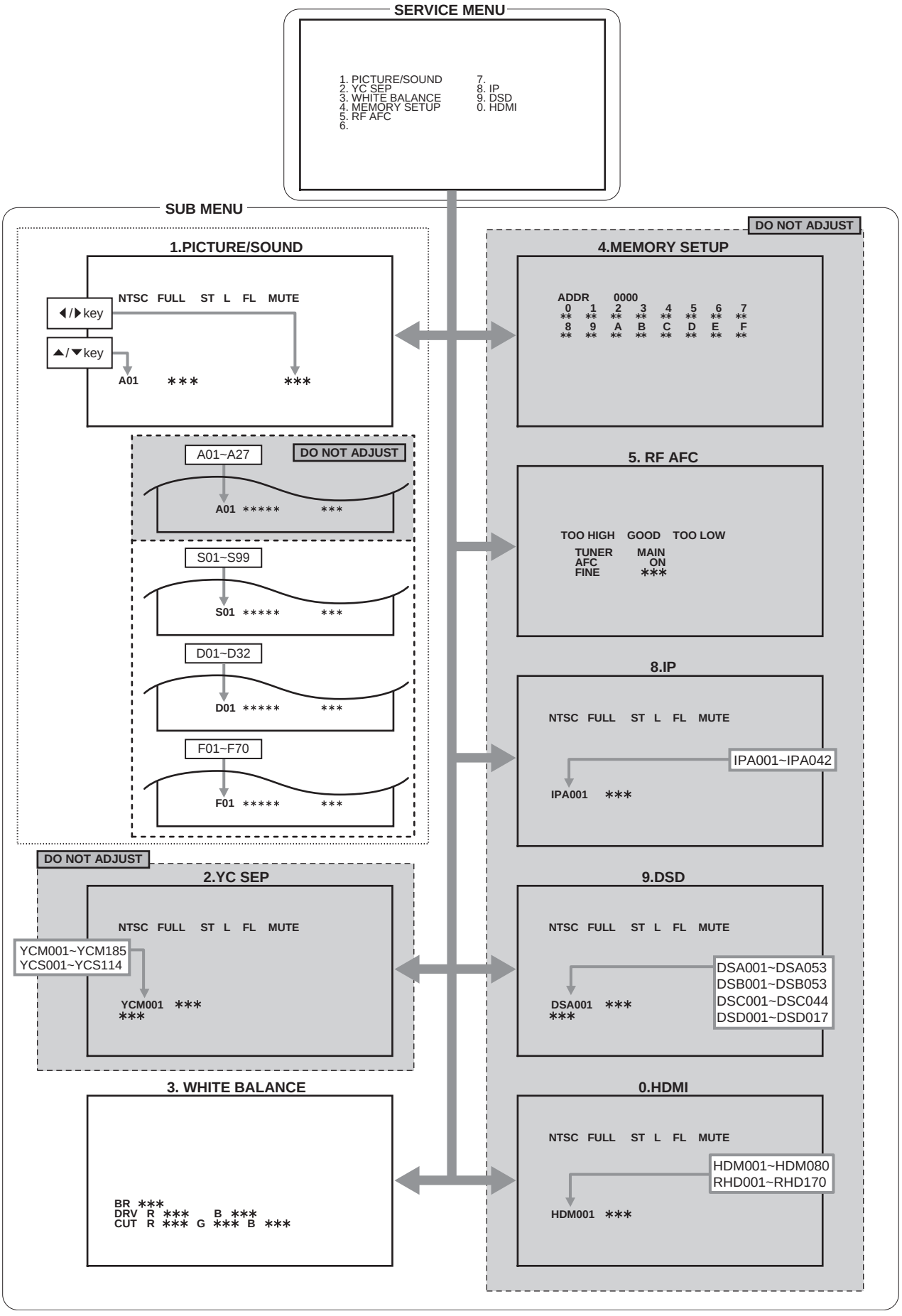


Fig.1

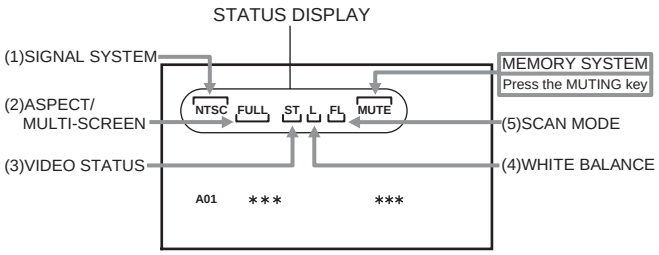
KEY FUNCTION of SERVICE MENU



4.5.4 SERVICE MENU FLOW CHART



4.5.5 SERVICE MENU FUNCTIONS



(1) SIGNAL SYSTEM

NTSC : Composite video / S-video / RF signal
DVD : 480i (Component) signal input
ED : 480p signal input
HD : 1080i signal input
750p : 750p signal input

(2) ASPECT / MULTI-SCREEN
ASPECT

PANORAMA : 4:3
CINEMA : 16:9
FULL : 16:9
REGULAR : 4:3

MULTI-SCREEN

M12 : INDEX

(3) VIDEO STATUS

ST : STANDARD
DA : DYNAMIC
TH : THEATER
GA : GAME

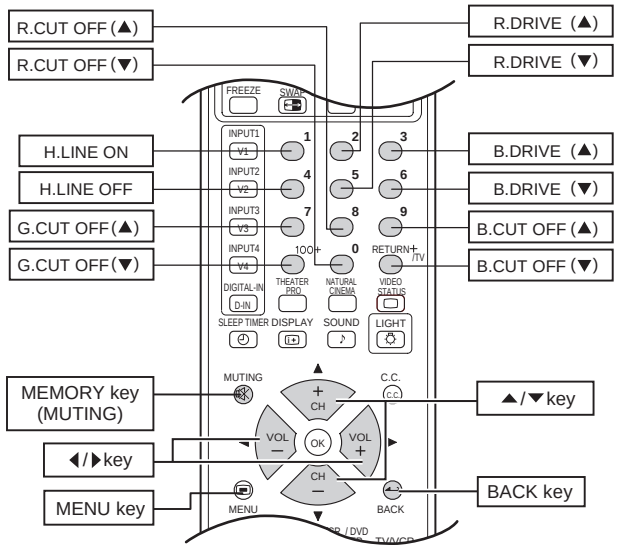
(4) WHITE BALANCE

L : LOW
H : HIGH

(5) SCAN MODE

FL : interlace
LI : progressive

KEY FUNCTION of SERVICE MENU



4.5.6 SERVICE MENU SETTING

1. PICTURE/SOUND

AUDIO, VIDEO, DEFLECTION data adjustment.

(1) SETTING ITEM No.

A : AUDIO
S : SIGNAL
D : DEFLECTION
F : FACTORY SETTING

- Press [CH▲/▼] key : Item No. is up/down

A01··· ◀▶ S01··· ◀▶ D01··· ◀▶ F01···

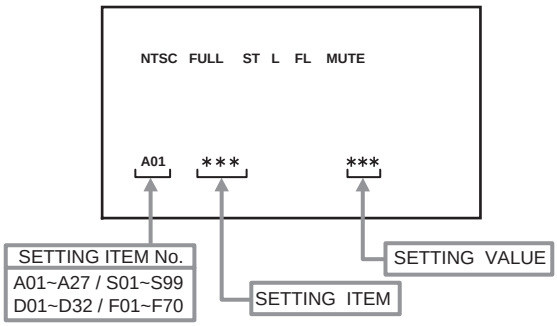
- Press [SLEEP TIMER] key : Skip change

A01 ⟶ S01 ⟶ D01 ⟶ F01

(2) SETTING ITEM NAME
Describe setting item name

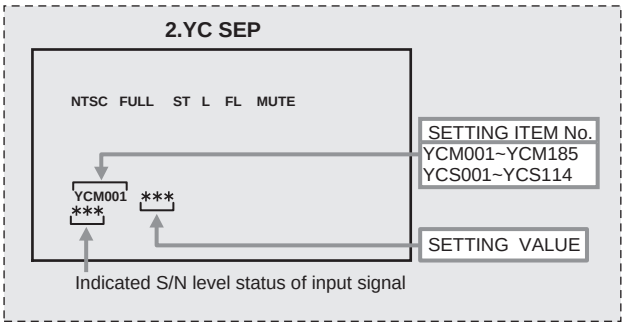
(3) SETTING VALUE
Set the setting value.
- Press [VOL◀ / ▶] key : Set the setting value.
- Press [MUTING] key : Memorize the data.

1. PICTURE / SOUND



2. YC SEP

YC separation circuit setting
[Do not adjust]



3. WHITE BALANCE

Adjustment of LOW LIGHT / HIGH LIGHT

(1) SELECT ITEM

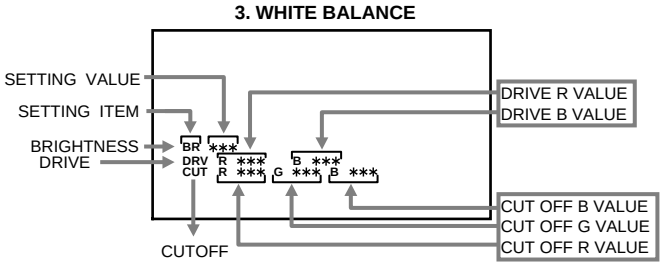
- Press [CH+] / [CH-] key

(2) SETTING VALUE

BRIGHT

- Press [VOL+] / [VOL-]

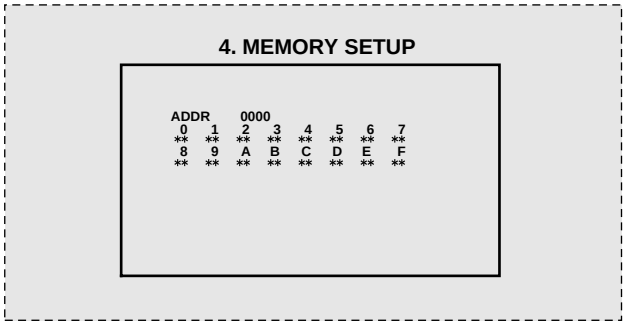
DRIVE		CUTOFF	
[2] key	: DRIVE R is up	[7] key	: CUTOFF G is up
[4] key	: DRIVE R is down	[100] key	: CUTOFF G is down
[3] key	: DRIVE B is up	[8] key	: CUTOFF R is up
[6] key	: DRIVE R is down	[0] key	: CUTOFF R is down
		[TV] key	: CUTOFF B is down



4. MEMORY SETUP

Main memory data edition

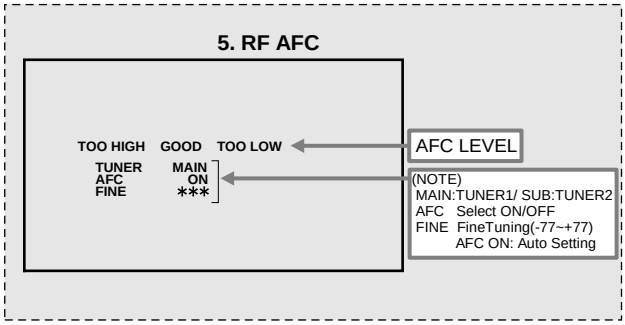
[Do not adjust]



5. RF AFC

Setting the IF VCO adjustment

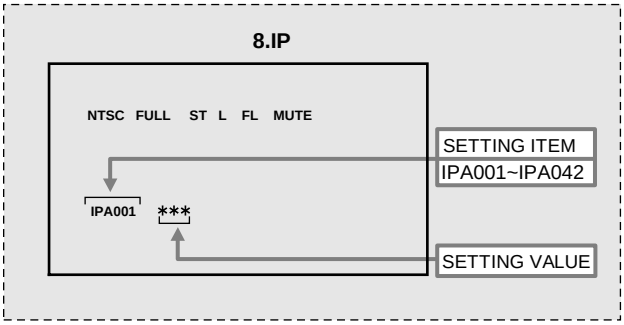
[Do not adjust]



8. IP

DIST circuit data setting

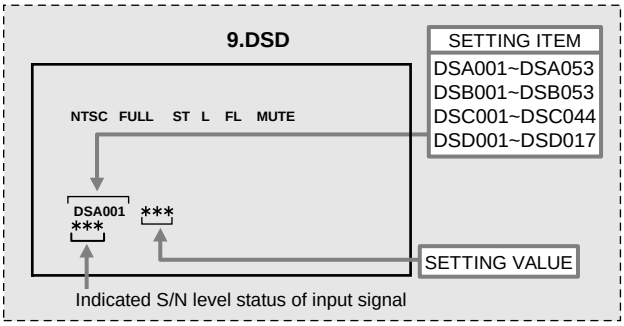
[Do not adjust]



9. DSD

DSD (Digital Super Detail)circuit data setting

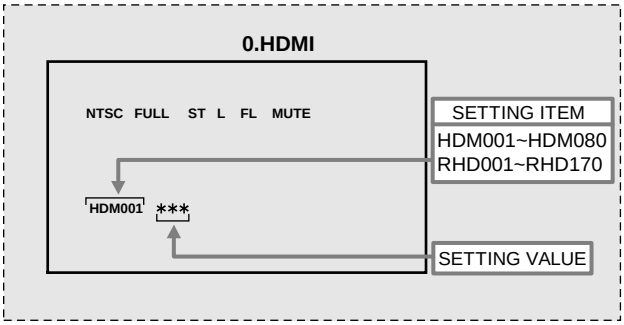
[Do not adjust]



0. HDMI

DIGITAL INPUT circuit data setting

[Do not adjust]



4.6 INITIAL SETTING VALUE OF SERVICE MENU

(1) Adjustment of the SERVICE MENU is made on the basis of the initial setting values; however, the new setting values, which set the screen in its optimum condition, may differ from the initial setting.
(2) 2.Do not change the initial setting values of the setting items NOT LISTED IN ADJUSTMENT PROCEDURE.
(3) 3.Marked "---" in following table, it is offset value.

4.6.1 [1.PICTURE/SOUND]

AUDIO SYSTEM

Item No.	Item	Variable range	Setting value
A01	IN LEVEL	000~015	008
A02	LOW SEP	000~063	035
A03	HI SEP	000~063	020
A04	BBE BASS	-128~+127	006
A05	BBE TREBLE	-128~+127	008
A06	SURROUND	000/ 001	000
A07	BASS OFS	-128~+127	000
A08	TREBLE OFS	-128~+127	-002
A09	AHS MVE	-128~+127	000
A10	AHS MSC	-128~+127	000
A11	**(Not display)**	000~001	000
A12	**(Not display)**	000~001	000
A13	**(Not display)**	000~001	000
A14	**(Not display)**	000~001	000
A15	**(Not display)**	000~001	000
A16	**(Not display)**	000~001	000
A17	**(Not display)**	000~001	000
A18	**(Not display)**	000~001	000
A19	**(Not display)**	000~001	000
A20	**(Not display)**	000~001	000
A21	**(Not display)**	000~001	000
A22	**(Not display)**	000~001	000
A23	**(Not display)**	000~001	000
A24	**(Not display)**	000~001	000
A25	**(Not display)**	000~001	000
A26	**(Not display)**	000~001	000
A27	**(Not display)**	000~001	000

DEFLECTION SYSTEM

Item No.	Item	Variable range	Setting value
D01	V. SIZE	000~127	088
D02	EW	000~063	013
D03	H. SIZE	000~063	045
D04	V. SCORE	000~063	018
D05	V. LINE	000~063	038
D06	V. CENT	000~127	035
D07	EW. TRAP	000~127	034
D08	BOT. CORN	000~031	009
D09	TOP. CORN	000~031	009
D10	V. EHT	000~007	003
D11	H. EHT	000~007	002
D12	**(Not display)**	000~031	005
D13	**(Not display)**	000~031	000
D14	H. CENTER	000~255	097
D15	H. FREQ	000~255	076
D16	**(Not display)**	000~127	094
D17	**(Not display)**	000~003	000
D18	**(Not display)**	000~001	000
D19	**(Not display)**	000~001	000
D20	**(Not display)**	000~001	000
D21	**(Not display)**	000~001	000
D22	**(Not display)**	000~001	000
D23	**(Not display)**	000~001	000
D24	**(Not display)**	000~001	000
D25	**(Not display)**	000~001	000
D26	**(Not display)**	000~001	000
D27	**(Not display)**	000~001	000
D28	**(Not display)**	000~001	000
D29	**(Not display)**	000~001	000
D30	**(Not display)**	000~001	000
D31	**(Not display)**	000~001	000
D32	**(Not display)**	000~001	000

VIDEO SYSTEM

(NTSC / 480i / 480p / 720p / 1080i)

Item No.	Item	Variable range	Setting value							
			NTSC		480i		480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S01	COLOR	000~255	83	78	79	72	84	72	71	62
S02	TINT	000~255	67	69	65	67	65	73	77	66

(DIGITAL)

Item No.	Item	Variable range	Setting value					
			480i		480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S01	COLOR	000~255	---	---	---	---	---	---
S02	TINT	000~255	---	---	---	---	---	---

(NTSC / 480i / 480p / 720p / 1080i)

Item No.	Item	Variable range	Setting value					
			NTSC		480i / 480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S03	BRIGHT	000~255	127	127	127	127	127	127
S04	CONTRAST	000~127	91	50	95	54	101	56

(DIGITAL)

Item No.	Item	Variable range	Setting value			
			480i / 480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER
S03	BRIGHT	000~255	---	---	---	---
S04	CONTRAST	000~127	---	---	---	---

(NTSC / 480i / 480p / 720p / 1080i)

Item No.	Item	Variable range	Setting value							
			NTSC		480i		480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S05	O MTX SW	000~003	000	000	000	000	000	000	000	000
S06	INPUT SW	000~063	001	001	001	001	001	001	000	000
S07	B-Y	000~063	015	019	013	020	010	016	012	020
S08	R-Y	000~015	007	000	007	002	007	002	008	003
S09	G-Y MATRI	000~003	002	003	001	003	001	003	001	002

(NTSC / 480i)

Item No.	Item	Variable range	Setting value							
			NTSC				480i			
			STANDARD		THEATER		STANDARD		THEATER	
			HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
S10	DRIVE R	000~255	---	132	---	---	---	133	---	---
S11	(Not display)	-128~+127	+006	---	+008	+014	+013	---	+006	+013
S12	DRIVE B	000~255	---	132	---	---	---	141	---	---
S13	(Not display)	-128~+127	+005	---	-009	-022	+012	---	-011	-025

(480p / 720p / 1080i / DIGITAL)

Item No.	Item	Variable range	Setting value											
			480p				720p / 1080i				DIGITAL			
			STANDARD		THEATER		STANDARD		THEATER		STANDARD		THEATER	
			HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
S10	DRIVE R	000~255	---	---	---	---	---	134	---	---	---	---	---	---
S11	(Not display)	-128~+127	-003	+002	+007	+011	+007	---	+010	+012	+007	000	+010	+012
S12	DRIVE B	000~255	---	---	---	---	---	139	---	---	---	---	---	---
S13	(Not display)	-128~+127	+006	+001	-010	-024	+009	---	-009	-025	+009	000	-009	-025

(NTSC / 480i / 480p / 720p / 1080i / DIGITAL)

Item No.	Item	Variable range	Setting value							
			NTSC		480i / 480p		720p / 1080i		DIGITAL	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S14	CUTOFR	000~255	196	---	196	---	196	---	---	---
S15	(Not display)	-128~+127	---	-002	---	-002	---	-006	000	-006
S16	CUTOFG	000~255	196	---	196	---	196	---	---	---
S17	(Not display)	-128~+127	---	-003	---	000	---	-002	000	-002
S18	CUTOFB	000~255	196	---	196	---	196	---	---	---
S19	(Not display)	-128~+127	---	+007	---	+001	---	+003	000	+003
S20	CUTOFSWR	000~003	001	---	001	---	001	---	---	---
S21	CUTOFSWG	000~003	001	---	001	---	001	---	---	---
S22	CUTOFSWB	000~003	001	---	001	---	001	---	---	---

(NTSC / 480i / OTHERS)

Item No.	Item	Variable range	Setting value					
			NTSC		480i		OTHERS	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S23	DC CTL	000~255	255	000	000	000	000	000

Item No.	Item	Variable range	Setting value
S24	RGB LIMIT	000~015	000

(NTSC / 480i / OTHERS)

Item No.	Item	Variable range	Setting value		
			NTSC	480i	OTHERS
S25	BL START	000~015	009	008	012
S26	BL GAIN	000~015	004	002	005
S27	YGM LVL	000~015	007	007	007
S28	YGM GAIN	000~015	009	013	006
S29	YWD STRT	000~015	005	002	001
S30	YWD GAIN	000~015	004	004	004

(NTSC / 480i / 480p / 720p / 1080i)

Item No.	Item	Variable range	Setting value							
			NTSC		480i		480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S31	COL OFST	-128~+127	---	---	---	---	---	---	---	---
S32	TINT OFST	-128~+127	---	---	---	---	---	---	---	---

(DIGITAL)

Item No.	Item	Variable range	Setting value					
			480i		480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S31	COL OFST	-128~+127	000	000	000	000	000	000
S32	TINT OFST	-128~+127	000	000	000	000	000	000

(NTSC / 480i / 480p / 720p / 1080i)

Item No.	Item	Variable range	Setting value					
			NTSC		480i / 480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S33	BRT OFST	-128~+127	---	---	---	---	---	---
S34	CNT OFST	-128~+127	---	---	---	---	---	---

(DIGITAL)

Item No.	Item	Variable range	Setting value					
			480i / 480p		720p / 1080i		ASPECT	
							SPLIT / FREEZE	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S33	BRT OFST	-128~+127	000	000	000	000	000	000
S34	CNT OFST	-128~+127	000	000	000	000	000	000

Item No.	Item	Variable range	Setting value	
			STANDARD	THEATER
S35	DCTRN SW	000~001	000	000
S36	BL OFF	000~001	000	000
S37	YGM OFF	000~001	000	000
S38	ABL OFF	000~001	000	000
S39	ACL OFF	000~001	000	000

Item No.	Item	Variable range	Seeting value
S40	BL CNT LK	000~001	000
S41	YG CNT LK	000~001	000
S42	DCTRN PL	000~001	000
S43	ABL GAIN	000~015	015
S44	ABL STRT	000~015	015
S45	ACL GAIN	000~015	015
S46	ACL STRT	000~015	000

Item No.	Item	Variable range	Setting value			
			SPLIT	REGULAR	THEATER	OTHERS
S47	ACL EERG	000~255	255	255	255	255

Item No.	Setting item	Variable range	Setting value
S48	CHRM GM	000~255	255
S49	OSDR DC	000~127	064
S50	OSDB DC	000~127	064
S51	BLK OFF	000~001	000
S52	CNT UNDR	-128~+127	-027
S53	CNT UPPR	-128~+127	+016
S54	BRT UNDR	-128~+127	-017
S55	EETH BRT	-128~+127	000
S56	EETH CNT	-128~+127	000
S57	BREE CNT	000~031	008
S58	DKEE CNT	000~031	015
S59	DREE BRT	000~127	004
S60	BREE ACL	000~255	089
S61	DKEE ACL	000~255	108
S62	VMOFF DE	-128~+127	+002
S63	VM LOW	-128~+127	-020
S64	VM MID	-128~+127	-010
S65	VM HIGH	-128~+127	+010
S66	VM L-	-128~+127	-022
S67	VM LH	-128~+127	-019
S68	VM MH	-128~+127	-016
S69	VM M+	-128~+127	000
S70	**(Not display)**	000~001	000
S71	**(Not display)**	000~001	000
S72	**(Not display)**	000~001	000
S73	**(Not display)**	000~001	000
S74	**(Not display)**	000~001	000
S75	**(Not display)**	000~001	000
S76	**(Not display)**	000~001	000
S77	**(Not display)**	000~001	000
S78	**(Not display)**	000~001	000
S79	**(Not display)**	000~001	000
S80	**(Not display)**	000~001	000
S81	**(Not display)**	000~001	000
S82	**(Not display)**	000~001	000
S83	**(Not display)**	000~001	000
S84	**(Not display)**	000~001	000
S85	**(Not display)**	000~001	000
S86	**(Not display)**	000~001	000
S87	**(Not display)**	000~001	000
S88	**(Not display)**	000~001	000
S89	**(Not display)**	000~001	000
S90	**(Not display)**	000~001	000
S91	**(Not display)**	000~001	000
S92	**(Not display)**	000~001	000

Item No.	Setting item	Variable range	Setting value
S93	**(Not display)**	000~001	000
S94	**(Not display)**	000~001	000
S95	**(Not display)**	000~001	000
S96	**(Not display)**	000~001	000
S97	**(Not display)**	000~001	000
S98	**(Not display)**	000~001	000
S99	**(Not display)**	000~001	000

Item No.	Setting item	Variable range	Setting value
F01	E 1	000~255	076
F02	E 2	000~255	001
F03	**(Not display)**	000~255	127
F04	CATVMAX	000~001	1
F05	**(Not display)**	000~255	196
F06	**(Not display)**	000~255	168
F07	**(Not display)**	000~255	007
F08	**(Not display)**	000~255	000
F09	AUTOSCR 1	000~015	000
F10	AUOTSCR 2	000~015	000
F11	AUTOSCR 3	000~015	000
F12	AUTOSCR 4	000~015	000
F13	AUTOSCR 5	000~015	000
F14	AUTOSCR 6	000~015	000
F15	AUTOSCR 7	000~015	000
F16	**(Not display)**	000~127	070
F17	**(Not display)**	000~001	000
F18	FIX DATA	000~001	000
F19	**(Not display)**	000~001	000
F20	**(Not display)**	000~255	005
F21	**(Not display)**	000~255	002
F22	**(Not display)**	000~001	000
F23	**(Not display)**	000~255	000
F24	**(Not display)**	000~255	141
F25	**(Not display)**	000~255	006
F26	**(Not display)**	000~255	040
F27	**(Not display)**	000~255	040
F28	**(Not display)**	000~001	000
F29	**(Not display)**	000~001	000
F30	**(Not display)**	000~001	000
F31	**(Not display)**	000~001	000
F32	ATT V	000~001	000
F33	ATT U	000~001	000
F34	ATT C	000~001	000
F35	**(Not display)**	000~001	000
F36	**(Not display)**	000~001	000

Item No.	Setting item	Variable range	Setting value
F37	**(Not display)**	000~001	000
F38	DC1	000~001	000
F39	DC4	000~001	000
F40	DC5	000~001	000
F41	SS LV	000~003	000
F42	SS CP	000~001	000
F43	SS HDP	000~063	039
F44	**(Not display)**	000~001	000
F45	**(Not display)**	000~001	000
F46	**(Not display)**	000~001	000
F47	**(Not display)**	000~001	000
F48	**(Not display)**	000~001	000
F49	**(Not display)**	000~001	001
F50	**(Not display)**	000~001	001
F51	**(Not display)**	000~007	001
F52	**(Not display)**	000~063	053
F53	**(Not display)**	-128~+127	000
F54	**(Not display)**	000~255	030
F55	**(Not display)**	000~255	040
F56	**(Not display)**	000~255	207
F57	**(Not display)**	000~255	128
F58	**(Not display)**	000~255	047
F59	**(Not display)**	000~001	001
F60	ATT GAIN	000~001	000
F61	**(Not display)**	000~001	001
F62	**(Not display)**	000~001	000
F63	**(Not display)**	-128~+127	+010
F64	**(Not display)**	-128~+127	000
F65	**(Not display)**	-128~+127	-010
F66	**(Not display)**	000~007	004
F67	**(Not display)**	000~003	003
F68	**(Not display)**	000~255	126
F69	**(Not display)**	000~001	000
F70	**(Not display)**	000~001	000

4.6.2 [2.YC SEP] (Fixed value. Do not adjust.)

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item name	Variable range	Setting value
YCM001	**(Not display)**	000~001	000
YCM002	**(Not display)**	000~001	000
YCM003	**(Not display)**	000~001	000
YCM004	**(Not display)**	000~003	001
YCM005	**(Not display)**	000~255	239
YCM006	**(Not display)**	000~003	001
YCM007	**(Not display)**	000~255	239
YCM008	**(Not display)**	000~001	000
YCM009	**(Not display)**	000~003	000
YCM010	**(Not display)**	000~001	000
YCM011	**(Not display)**	000~001	000
YCM012	**(Not display)**	000~001	000
YCM013	**(Not display)**	000~001	000
YCM014	**(Not display)**	000~003	000
YCM015	**(Not display)**	000~001	000
YCM016	**(Not display)**	000~003	001
YCM017	**(Not display)**	000~001	001
YCM018	**(Not display)**	000~003	000
YCM019	**(Not display)**	000~001	000
YCM020	**(Not display)**	000~001	000
YCM021	**(Not display)**	000~003	002
YCM022	**(Not display)**	000~007	004
YCM023	**(Not display)**	000~001	001
YCM024	**(Not display)**	000~001	000
YCM025	**(Not display)**	000~015	005
YCM026	**(Not display)**	000~015	003
YCM027	**(Not display)**	000~003	000
YCM028	**(Not display)**	000~007	003
YCM029	**(Not display)**	000~007	002
YCM030	**(Not display)**	000~003	001
YCM031	**(Not display)**	000~001	000
YCM032	**(Not display)**	000~003	003
YCM033	**(Not display)**	000~001	001
YCM034	**(Not display)**	000~001	000
YCM035	**(Not display)**	000~255	096
YCM036	**(Not display)**	000~001	001
YCM037	**(Not display)**	000~003	001
YCM038	**(Not display)**	000~127	062
YCM039	**(Not display)**	000~127	073
YCM040	**(Not display)**	000~003	002
YCM041	**(Not display)**	000~063	016
YCM042	**(Not display)**	000~001	000
YCM043	**(Not display)**	000~001	000
YCM044	**(Not display)**	000~255	202
YCM045	**(Not display)**	000~001	000
YCM046	**(Not display)**	000~255	147
YCM047	**(Not display)**	000~001	001

Item No.	Item name	Variable range	Setting value
YCM048	**(Not display)**	000~001	001
YCM049	**(Not display)**	000~001	001
YCM050	**(Not display)**	000~001	001
YCM051	**(Not display)**	000~001	001
YCM052	**(Not display)**	000~001	000
YCM053	**(Not display)**	000~001	001
YCM054	**(Not display)**	000~003	003
YCM055	**(Not display)**	000~003	003
YCM056	**(Not display)**	000~003	000
YCM057	**(Not display)**	000~001	000
YCM058	**(Not display)**	000~001	001
YCM059	**(Not display)**	000~001	001
YCM060	**(Not display)**	000~001	000
YCM061	**(Not display)**	000~001	001
YCM062	**(Not display)**	000~015	001
YCM063	**(Not display)**	000~015	004
YCM064	**(Not display)**	000~003	000
YCM065	**(Not display)**	000~063	060
YCM066	**(Not display)**	000~063	040
YCM067	**(Not display)**	000~063	025
YCM068	**(Not display)**	000~063	012
YCM069	**(Not display)**	000~063	036
YCM070	**(Not display)**	000~063	031
YCM071	**(Not display)**	000~127	031
YCM072	**(Not display)**	000~001	001
YCM073	**(Not display)**	000~001	001
YCM074	**(Not display)**	000~063	024
YCM075	**(Not display)**	000~001	000
YCM076	**(Not display)**	000~001	001
YCM077	**(Not display)**	000~063	010
YCM078	**(Not display)**	000~063	001
YCM079	**(Not display)**	000~255	000
YCM080	**(Not display)**	000~255	000
YCM081	**(Not display)**	000~ÅE55	000
YCM082	**(Not display)**	000~255	000
YCM083	**(Not display)**	000~001	001
YCM084	**(Not display)**	000~063	012
YCM085	**(Not display)**	000~001	000
YCM086	**(Not display)**	000~001	000
YCM087	**(Not display)**	000~063	028
YCM088	**(Not display)**	000~001	001
YCM089	**(Not display)**	000~031	000
YCM090	**(Not display)**	000~003	000
YCM091	**(Not display)**	000~015	000
YCM092	**(Not display)**	000~015	000

Item No.	Item name	Variable range	Setting value
YCM093	**(Not display)**	000~015	002
YCM094	**(Not display)**	000~063	000
YCM095	**(Not display)**	000~255	035
YCM096	**(Not display)**	000~001	001
YCM097	**(Not display)**	000~063	063
YCM098	**(Not display)**	000~015	008
YCM099	**(Not display)**	000~015	005
YCM100	**(Not display)**	000~015	008
YCM101	**(Not display)**	000~015	005
YCM102	**(Not display)**	000~015	000
YCM103	**(Not display)**	000~015	002
YCM104	**(Not display)**	000~015	008
YCM105	**(Not display)**	000~015	006
YCM106	**(Not display)**	000~255	010
YCM107	**(Not display)**	000~255	032
YCM108	**(Not display)**	000~255	031
YCM109	**(Not display)**	000~255	064
YCM110	**(Not display)**	000~001	000
YCM111	**(Not display)**	000~001	001
YCM112	**(Not display)**	000~001	001
YCM113	**(Not display)**	000~001	001
YCM114	**(Not display)**	000~001	000
YCM115	**(Not display)**	000~001	001
YCM116	**(Not display)**	000~001	000
YCM117	**(Not display)**	000~001	000
YCM118	**(Not display)**	000~001	001
YCM119	**(Not display)**	000~001	000
YCM120	**(Not display)**	000~001	000
YCM121	**(Not display)**	000~003	003
YCM122	**(Not display)**	000~001	000
YCM123	**(Not display)**	000~255	026
YCM124	**(Not display)**	000~001	000
YCM125	**(Not display)**	000~255	025
YCM126	**(Not display)**	000~001	000
YCM127	**(Not display)**	000~001	001
YCM128	**(Not display)**	000~001	001
YCM129	**(Not display)**	000~001	001
YCM130	**(Not display)**	000~003	001
YCM131	**(Not display)**	000~255	050
YCM132	**(Not display)**	000~255	131
YCM133	**(Not display)**	000~255	055
YCM134	**(Not display)**	000~007	001
YCM135	**(Not display)**	000~255	136
YCM136	**(Not display)**	000~001	000
YCM137	**(Not display)**	000~001	000

Item No.	Item name	Variable range	Setting value
YCM138	**(Not display)**	000~007	003
YCM139	**(Not display)**	000~255	089
YCM140	**(Not display)**	000~007	000
YCM141	**(Not display)**	000~255	252
YCM142	**(Not display)**	000~001	001
YCM143	**(Not display)**	000~007	005
YCM144	**(Not display)**	000~255	128
YCM145	**(Not display)**	000~001	000
YCM146	**(Not display)**	000~001	001
YCM147	**(Not display)**	000~001	001
YCM148	**(Not display)**	000~001	001
YCM149	**(Not display)**	000~001	000
YCM140	**(Not display)**	000~001	000
YCM151	**(Not display)**	000~255	136
YCM152	**(Not display)**	000~001	001
YCM153	**(Not display)**	000~001	001
YCM154	**(Not display)**	000~001	001
YCM155	**(Not display)**	000~003	000
YCM156	**(Not display)**	000~015	015
YCM157	**(Not display)**	000~015	004
YCM158	**(Not display)**	000~001	001
YCM159	**(Not display)**	000~127	004
YCM160	**(Not display)**	000~001	010
YCM161	**(Not display)**	000~031	000
YCM162	**(Not display)**	000~001	000
YCM163	**(Not display)**	000~015	003
YCM164	**(Not display)**	000~007	002
YCM165	**(Not display)**	000~031	016
YCM166	**(Not display)**	000~255	235
YCM167	**(Not display)**	000~003	000
YCM168	**(Not display)**	000~063	000
YCM169	**(Not display)**	000~015	003
YCM170	**(Not display)**	000~015	003
YCM171	**(Not display)**	000~007	000
YCM172	**(Not display)**	000~255	096
YCM173	**(Not display)**	000~007	003
YCM174	**(Not display)**	000~255	056
YCM175	**(Not display)**	000~001	000
YCM176	**(Not display)**	000~001	000
YCM177	**(Not display)**	000~255	022
YCM178	**(Not display)**	000~001	001
YCM179	**(Not display)**	000~001	000
YCM180	**(Not display)**	000~007	004
YCM181	**(Not display)**	000~003	001
YCM182	**(Not display)**	000~003	001
YCM183	**(Not display)**	000~003	001
YCM184	**(Not display)**	000~003	001
YCM185	**(Not display)**	000~255	000

Item No.	Item name	Variable range	Setting value
YCS001	**(Not display)**	000~001	000
YCS002	**(Not display)**	000~001	000
YCS003	**(Not display)**	000~001	000
YCS004	**(Not display)**	000~003	001
YCS005	**(Not display)**	000~255	239
YCS006	**(Not display)**	000~003	001
YCS007	**(Not display)**	000~255	239
YCS008	**(Not display)**	000~001	000
YCS009	**(Not display)**	000~003	000
YCS010	**(Not display)**	000~001	000
YCS011	**(Not display)**	000~001	000
YCS012	**(Not display)**	000~001	000
YCS013	**(Not display)**	000~001	000
YCS014	**(Not display)**	000~003	000
YCS015	**(Not display)**	000~001	000
YCS016	**(Not display)**	000~003	001
YCS017	**(Not display)**	000~001	001
YCS018	**(Not display)**	000~003	000
YCS019	**(Not display)**	000~001	000
YCS020	**(Not display)**	000~001	000
YCS021	**(Not display)**	000~003	002
YCS022	**(Not display)**	000~007	004
YCS023	**(Not display)**	000~001	001
YCS024	**(Not display)**	000~001	000
YCS025	**(Not display)**	000~015	005
YCS026	**(Not display)**	000~015	003
YCS027	**(Not display)**	000~003	000
YCS028	**(Not display)**	000~007	003
YCS029	**(Not display)**	000~007	006
YCS030	**(Not display)**	000~003	000
YCS031	**(Not display)**	000~001	000
YCS032	**(Not display)**	000~003	003
YCS033	**(Not display)**	000~001	001
YCS034	**(Not display)**	000~001	000
YCS035	**(Not display)**	000~255	096
YCS036	**(Not display)**	000~001	001
YCS037	**(Not display)**	000~003	001
YCS038	**(Not display)**	000~127	062
YCS039	**(Not display)**	000~127	068
YCS040	**(Not display)**	000~003	002

Item No.	Item name	Variable range	Setting value
YCS041	**(Not display)**	000~063	016
YCS042	**(Not display)**	000~001	000
YCS043	**(Not display)**	000~001	000
YCS044	**(Not display)**	000~255	167
YCS045	**(Not display)**	000~001	000
YCS046	**(Not display)**	000~255	125
YCS047	**(Not display)**	000~001	001
YCS048	**(Not display)**	000~003	000
YCS049	**(Not display)**	000~003	000
YCS050	**(Not display)**	000~015	000
YCS051	**(Not display)**	000~015	008
YCS052	**(Not display)**	000~015	001
YCS053	**(Not display)**	000~063	030
YCS054	**(Not display)**	000~255	030
YCS055	**(Not display)**	000~001	001
YCS056	**(Not display)**	000~263	016
YCS057	**(Not display)**	000~015	008
YCS058	**(Not display)**	000~015	005
YCS059	**(Not display)**	000~015	008
YCS060	**(Not display)**	000~015	005
YCS061	**(Not display)**	000~015	000
YCS062	**(Not display)**	000~015	002
YCS063	**(Not display)**	000~015	008
YCS064	**(Not display)**	000~015	006
YCS065	**(Not display)**	000~255	010
YCS066	**(Not display)**	000~255	032
YCS067	**(Not display)**	000~255	031
YCS068	**(Not display)**	000~255	064
YCS069	**(Not display)**	000~001	000
YCS070	**(Not display)**	000~001	001
YCS071	**(Not display)**	000~001	001
YCS072	**(Not display)**	000~001	001
YCS073	**(Not display)**	000~001	000
YCS074	**(Not display)**	000~001	001
YCS075	**(Not display)**	000~001	000
YCS076	**(Not display)**	000~001	000
YCS077	**(Not display)**	000~001	001
YCS078	**(Not display)**	000~001	000
YCS079	**(Not display)**	000~001	000
YCS080	**(Not display)**	000~003	003
YCS081	**(Not display)**	000~001	000
YCS082	**(Not display)**	000~255	000
YCS083	**(Not display)**	000~255	000
YCS084	**(Not display)**	000~007	000
YCS085	**(Not display)**	000~255	014
YCS086	**(Not display)**	000~001	000
YCS087	**(Not display)**	000~001	001
YCS088	**(Not display)**	000~001	000
YCS089	**(Not display)**	000~001	000
YCS090	**(Not display)**	000~255	136
YCS091	**(Not display)**	000~001	001
YCS092	**(Not display)**	000~001	001
YCS093	**(Not display)**	000~001	001
YCS094	**(Not display)**	000~003	000
YCS095	**(Not display)**	000~015	015
YCS096	**(Not display)**	000~015	004
YCS097	**(Not display)**	000~001	001
YCS098	**(Not display)**	000~127	007
YCS099	**(Not display)**	000~031	000
YCS100	**(Not display)**	000~001	000
YCS101	**(Not display)**	000~015	003
YCS102	**(Not display)**	000~007	002
YCS103	**(Not display)**	000~031	016
YCS104	**(Not display)**	000~255	235
YCS105	**(Not display)**	000~003	000
YCS106	**(Not display)**	000~063	000
YCS107	**(Not display)**	000~015	003
YCS108	**(Not display)**	000~015	003
YCS109	**(Not display)**	000~001	000
YCS110	**(Not display)**	000~003	001
YCS111	**(Not display)**	000~003	001
YCS112	**(Not display)**	000~003	001
YCS113	**(Not display)**	000~003	001
YCS114	**(Not display)**	000~255	000

4.6.3 [3.WHITE BALANCE]

NOTE :

It changes with the adjustment value of white balance adjustment.

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item name	Variable range	Setting value
BR	**(Not display)**	000~238	127
DRV R	**(Not display)**	000~255	164
DRV B	**(Not display)**	000~255	146
CUT R	**(Not display)**	000~255	058
CUT G	**(Not display)**	000~255	094
CUT B	**(Not display)**	000~255	255

4.6.4 [8.IP] (Fixed value. Do not adjust.)

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item name	Variable range	Setting value
IPA001	**(Not display)**	000~0FF	038
IPA002	**(Not display)**	000~0FF	001
IPA003	**(Not display)**	000~0FF	000
IPA004	**(Not display)**	000~0FF	000
IPA005	**(Not display)**	000~0FF	05F
IPA006	**(Not display)**	000~01F	061
IPA007	**(Not display)**	000~00F	000
IPA008	**(Not display)**	000~0FF	000
IPA009	**(Not display)**	000~0FF	000
IPA010	**(Not display)**	000~0FF	080
IPA011	**(Not display)**	000~00F	002
IPA012	**(Not display)**	000~0FF	02B
IPA013	**(Not display)**	000~00F	002
IPA014	**(Not display)**	000~0FF	000
IPA015	**(Not display)**	000~00F	002
IPA016	**(Not display)**	000~0FF	080
IPA017	**(Not display)**	000~00F	001
IPA018	**(Not display)**	000~0FF	000
IPA019	**(Not display)**	000~00F	001
IPA020	**(Not display)**	000~0FF	080
IPA021	**(Not display)**	000~00F	000
IPA022	**(Not display)**	000~0FF	016
IPA023	**(Not display)**	000~00F	000
IPA024	**(Not display)**	000~0FF	017
IPA025	**(Not display)**	000~00F	000
IPA026	**(Not display)**	000~0FF	019
IPA027	**(Not display)**	000~00F	000
IPA028	**(Not display)**	000~0FF	01B
IPA029	**(Not display)**	000~00F	000
IPA030	**(Not display)**	000~0FF	01D
IPA031	**(Not display)**	000~00F	000
IPA032	**(Not display)**	000~0FF	000
IPA033	**(Not display)**	000~00F	000
IPA034	**(Not display)**	000~0FF	010
IPA035	**(Not display)**	000~00F	000
IPA036	**(Not display)**	000~0FF	000
IPA037	**(Not display)**	000~00F	00F
IPA038	**(Not display)**	000~0FF	062
IPA039	**(Not display)**	000~0FF	001
IPA040	**(Not display)**	000~00F	000
IPA041	**(Not display)**	000~0FF	011
IPA042	**(Not display)**	000~00F	000

4.6.5 [9.DSD] (Fixed value. Do not adjust.)

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item name	Variable range	Setting value
DSA001	**(Not display)**	000~03F	014
DSA002	**(Not display)**	000~03F	021
DSA003	**(Not display)**	000~03F	015
DSA004	**(Not display)**	000~003	000
DSA005	**(Not display)**	000~001	000
DSA006	**(Not display)**	000~003	003
DSA007	**(Not display)**	000~03F	008
DSA008	**(Not display)**	000~001	001
DSA009	**(Not display)**	000~03F	012
DSA010	**(Not display)**	000~001	001
DSA011	**(Not display)**	000~001	001
DSA012	**(Not display)**	000~03F	013
DSA013	**(Not display)**	000~03F	017
DSA014	**(Not display)**	000~03F	01F
DSA015	**(Not display)**	000~003	002
DSA016	**(Not display)**	000~001	001
DSA017	**(Not display)**	000~003	001
DSA018	**(Not display)**	000~03F	000
DSA019	**(Not display)**	000~001	001
DSA020	**(Not display)**	000~03F	000
DSA021	**(Not display)**	000~001	001
DSA022	**(Not display)**	000~03F	01A
DSA023	**(Not display)**	000~001	001
DSA024	**(Not display)**	000~03F	016
DSA025	**(Not display)**	000~001	001
DSA026	**(Not display)**	000~03F	029
DSA027	**(Not display)**	000~001	001
DSA028	**(Not display)**	000~03F	00A
DSA029	**(Not display)**	000~001	001
DSA030	**(Not display)**	000~001	001
DSA031	**(Not display)**	000~03F	020
DSA032	**(Not display)**	000~001	000
DSA033	**(Not display)**	000~003	000

Item No.	Item name	Variable range	Setting value
DSA034	**(Not display)**	000~03F	008
DSA035	**(Not display)**	000~001	001
DSA036	**(Not display)**	000~001	001
DSA037	**(Not display)**	000~03F	020
DSA038	**(Not display)**	000~001	000
DSA039	**(Not display)**	000~003	000
DSA040	**(Not display)**	000~03F	008
DSA041	**(Not display)**	000~001	001
DSA042	**(Not display)**	000~001	001
DSA043	**(Not display)**	000~001	001
DSA044	**(Not display)**	000~03F	023
DSA045	**(Not display)**	000~001	000
DSA046	**(Not display)**	000~003	003
DSA047	**(Not display)**	000~03F	02E
DSA048	**(Not display)**	000~001	001
DSA049	**(Not display)**	000~03F	01B
DSA050	**(Not display)**	000~001	001
DSA051	**(Not display)**	000~03F	002
DSA052	**(Not display)**	000~001	001
DSA053	**(Not display)**	000~001	001

Item No.	Item name	Variable range	Setting value
DSB001	**(Not display)**	000~03F	013
DSB002	**(Not display)**	000~03F	02D
DSB003	**(Not display)**	000~03F	014
DSB004	**(Not display)**	000~003	000
DSB005	**(Not display)**	000~001	000
DSB006	**(Not display)**	000~003	002
DSB007	**(Not display)**	000~03F	008
DSB008	**(Not display)**	000~001	001
DSB009	**(Not display)**	000~03F	007
DSB010	**(Not display)**	000~001	001
DSB011	**(Not display)**	000~001	001
DSB012	**(Not display)**	000~03F	001
DSB013	**(Not display)**	000~03F	010
DSB014	**(Not display)**	000~03F	012
DSB015	**(Not display)**	000~003	002
DSB016	**(Not display)**	000~001	001
DSB017	**(Not display)**	000~003	001
DSB018	**(Not display)**	000~03F	000
DSB019	**(Not display)**	000~001	001
DSB020	**(Not display)**	000~03F	000
DSB021	**(Not display)**	000~001	001
DSB022	**(Not display)**	000~03F	01A
DSB023	**(Not display)**	000~001	001

Item No.	Item name	Variable range	Setting value
DSB024	**(Not display)**	000~03F	00C
DSB025	**(Not display)**	000~001	001
DSB026	**(Not display)**	000~03F	000
DSB027	**(Not display)**	000~001	001
DSB028	**(Not display)**	000~03F	00E
DSB029	**(Not display)**	000~001	001
DSB030	**(Not display)**	000~001	001
DSB031	**(Not display)**	000~03F	01F
DSB032	**(Not display)**	000~001	000
DSB033	**(Not display)**	000~003	000
DSB034	**(Not display)**	000~03F	008
DSB035	**(Not display)**	000~001	001
DSB036	**(Not display)**	000~001	001
DSB037	**(Not display)**	000~03F	01F
DSB038	**(Not display)**	000~001	000
DSB039	**(Not display)**	000~003	000
DSB040	**(Not display)**	000~03F	008
DSB041	**(Not display)**	000~001	001
DSB042	**(Not display)**	000~001	001
DSB043	**(Not display)**	000~001	000
DSB044	**(Not display)**	000~03F	024
DSB045	**(Not display)**	000~001	000
DSB046	**(Not display)**	000~003	003
DSB047	**(Not display)**	000~03F	028
DSB048	**(Not display)**	000~001	001
DSB049	**(Not display)**	000~03F	000
DSB050	**(Not display)**	000~001	001
DSB051	**(Not display)**	000~03F	000
DSB052	**(Not display)**	000~001	001
DSB053	**(Not display)**	000~001	000

Item No.	Item name	Variable range	Setting value
DSC001	**(Not display)**	000~00F	006
DSC002	**(Not display)**	000~0FF	073
DSC003	**(Not display)**	000~03F	01A
DSC004	**(Not display)**	000~003	000
DSC005	**(Not display)**	000~0FF	000
DSC006	**(Not display)**	000~001	000
DSC007	**(Not display)**	000~001	000
DSC008	**(Not display)**	000~001	000
DSC009	**(Not display)**	000~00F	000
DSC010	**(Not display)**	000~0FF	000
DSC011	**(Not display)**	000~00F	00F
DSC012	**(Not display)**	000~0FF	0FF
DSC013	**(Not display)**	000~00F	001

Item No.	Item name	Variable range	Setting value
DSC014	**(Not display)**	000~0FF	08A
DSC015	**(Not display)**	000~00F	003
DSC016	**(Not display)**	000~0FF	054
DSC017	**(Not display)**	000~00F	000
DSC018	**(Not display)**	000~0FF	000
DSC019	**(Not display)**	000~00F	00F
DSC020	**(Not display)**	000~0FF	0FF
DSC021	**(Not display)**	000~00F	000
DSC022	**(Not display)**	000~0FF	000
DSC023	**(Not display)**	000~00F	00F
DSC024	**(Not display)**	000~0FF	0FF
DSC025	**(Not display)**	000~00F	000
DSC026	**(Not display)**	000~0FF	080
DSC027	**(Not display)**	000~00F	000
DSC028	**(Not display)**	000~0FF	040
DSC029	**(Not display)**	000~00F	005
DSC030	**(Not display)**	000~0FF	040
DSC031	**(Not display)**	000~00F	000
DSC032	**(Not display)**	000~0FF	0C0
DSC033	**(Not display)**	000~00F	000
DSC034	**(Not display)**	000~0FF	080
DSC035	**(Not display)**	000~00F	000
DSC036	**(Not display)**	000~0FF	040
DSC037	**(Not display)**	000~00F	005
DSC038	**(Not display)**	000~0FF	040
DSC039	**(Not display)**	000~00F	000
DSC040	**(Not display)**	000~0FF	0C0
DSC041	**(Not display)**	000~00F	003
DSC042	**(Not display)**	000~0FF	033
DSC043	**(Not display)**	000~001	000
DSC044	**(Not display)**	000~001	000

Item No.	Item name	Variable range	Setting value
DSD001	**(Not display)**	000~255	001
DSD002	**(Not display)**	000~255	002
DSD003	**(Not display)**	000~255	001
DSD004	**(Not display)**	000~255	002
DSD005	**(Not display)**	000~255	001
DSD006	**(Not display)**	000~255	002
DSD007	**(Not display)**	000~255	001
DSD008	**(Not display)**	000~255	002
DSD009	**(Not display)**	-128~+127	+001
DSD010	**(Not display)**	-128~+127	000
DSD011	**(Not display)**	-128~+127	+002
DSD012	**(Not display)**	-128~+127	+002
DSD013	**(Not display)**	-128~+127	-001
DSD014	**(Not display)**	-128~+127	+001
DSD015	**(Not display)**	000~0FF	066
DSD016	**(Not display)**	000~0FF	08C
DSD017	**(Not display)**	000~0FF	0FB

4.6.6 [0.HDMI] (Fixed value. Do not adjust.)

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : 480p(DVI)
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item name	Variable range	Setting value
HDM001	**(Not display)**	000~001	000
HDM002	**(Not display)**	000~001	000
HDM003	**(Not display)**	000~001	000
HDM004	**(Not display)**	000~001	000
HDM005	**(Not display)**	000~001	001
HDM006	**(Not display)**	000~003	000
HDM007	**(Not display)**	000~001	000
HDM008	**(Not display)**	000~001	000
HDM009	**(Not display)**	000~001	000
HDM010	**(Not display)**	000~001	000
HDM011	**(Not display)**	000~001	000
HDM012	**(Not display)**	000~001	000
HDM013	**(Not display)**	000~001	001
HDM014	**(Not display)**	000~001	000
HDM015	**(Not display)**	000~001	000
HDM016	**(Not display)**	000~255	000
HDM017	**(Not display)**	000~255	000
HDM018	**(Not display)**	000~255	000
HDM019	**(Not display)**	000~001	001
HDM020	**(Not display)**	000~255	000
HDM021	**(Not display)**	000~007	000
HDM022	**(Not display)**	000~063	006
HDM023	**(Not display)**	000~063	006
HDM024	**(Not display)**	000~063	006
HDM025	**(Not display)**	000~001	000
HDM026	**(Not display)**	000~003	000
HDM027	**(Not display)**	000~255	212
HDM028	**(Not display)**	000~003	000
HDM029	**(Not display)**	000~255	192
HDM030	**(Not display)**	000~003	000
HDM031	**(Not display)**	000~255	212

Item No.	Item name	Variable range	Setting value
HDM032	**(Not display)**	000~003	000
HDM033	**(Not display)**	000~255	191
HDM034	**(Not display)**	000~003	001
HDM035	**(Not display)**	000~255	000
HDM036	**(Not display)**	000~255	026
HDM037	**(Not display)**	000~255	000
HDM038	**(Not display)**	000~255	000
HDM039	**(Not display)**	000~001	001
HDM040	**(Not display)**	000~001	001
HDM041	**(Not display)**	000~001	000
HDM042	**(Not display)**	000~255	001
HDM043	**(Not display)**	000~007	003
HDM044	**(Not display)**	000~003	000
HDM045	**(Not display)**	000~003	000
HDM046	**(Not display)**	000~001	001
HDM047	**(Not display)**	000~015	007
HDM048	**(Not display)**	000~255	000
HDM049	**(Not display)**	000~255	000
HDM050	**(Not display)**	000~015	000
HDM051	**(Not display)**	000 / 001	000
HDM052	**(Not display)**	000~001	000
HDM053	**(Not display)**	000~001	000
HDM054	**(Not display)**	000~001	000
HDM055	**(Not display)**	000~001	000
HDM056	**(Not display)**	000~001	000
HDM057	**(Not display)**	000~001	001
HDM058	**(Not display)**	000~001	000
HDM059	**(Not display)**	000~001	001
HDM060	**(Not display)**	000~001	000
HDM061	**(Not display)**	000~001	001
HDM062	**(Not display)**	000~001	001
HDM063	**(Not display)**	000~001	000
HDM064	**(Not display)**	000~001	000
HDM065	**(Not display)**	000~001	001
HDM066	**(Not display)**	000~001	000
HDM067	**(Not display)**	000~001	000
HDM068	**(Not display)**	000~031	004
HDM069	**(Not display)**	000~001	000
HDM070	**(Not display)**	000~001	001
HDM071	**(Not display)**	000~001	000
HDM072	**(Not display)**	000~001	000
HDM073	**(Not display)**	000~001	000
HDM074	**(Not display)**	000~031	008
HDM075	**(Not display)**	000~001	001
HDM076	**(Not display)**	000~001	001

Item No.	Item name	Variable range	Setting value
HDM077	**(Not display)**	000~001	001
HDM078	**(Not display)**	000~001	001
HDM079	**(Not display)**	000~001	001
HDM080	**(Not display)**	000~001	001

Item No.	Item name	Variable range	Setting value
RHD001	**(Not display)**	---	001
RHD002	**(Not display)**	---	000
RHD003	**(Not display)**	---	042
RHD004	**(Not display)**	---	099
RHD005	**(Not display)**	---	000
RHD006	**(Not display)**	---	000
RHD007	**(Not display)**	---	012
RHD008	**(Not display)**	---	088
RHD009	**(Not display)**	---	0B6
RHD010	**(Not display)**	---	086
RHD011	**(Not display)**	---	008
RHD012	**(Not display)**	---	000
RHD013	**(Not display)**	---	08D
RHD014	**(Not display)**	---	050
RHD015	**(Not display)**	---	08C
RHD016	**(Not display)**	---	0BB
RHD017	**(Not display)**	---	026
RHD018	**(Not display)**	---	0D1
RHD019	**(Not display)**	---	024
RHD020	**(Not display)**	---	045
RHD021	**(Not display)**	---	047
RHD022	**(Not display)**	---	012
RHD023	**(Not display)**	---	00A
RHD024	**(Not display)**	---	001
RHD025	**(Not display)**	---	022
RHD026	**(Not display)**	---	015
RHD027	**(Not display)**	---	000
RHD028	**(Not display)**	---	000
RHD029	**(Not display)**	---	000
RHD030	**(Not display)**	---	000
RHD031	**(Not display)**	---	000
RHD032	**(Not display)**	---	000
RHD033	**(Not display)**	---	0E0
RHD034	**(Not display)**	---	001
RHD035	**(Not display)**	---	023
RHD036	**(Not display)**	---	00A
RHD037	**(Not display)**	---	000
RHD038	**(Not display)**	---	000
RHD039	**(Not display)**	---	000

Item No.	Item name	Variable range	Setting value
RHD040	**(Not display)**	---	000
RHD041	**(Not display)**	---	001
RHD042	**(Not display)**	---	020
RHD043	**(Not display)**	---	000
RHD044	**(Not display)**	---	000
RHD045	**(Not display)**	---	000
RHD046	**(Not display)**	---	000
RHD047	**(Not display)**	---	00C
RHD048	**(Not display)**	---	000
RHD049	**(Not display)**	---	068
RHD050	**(Not display)**	---	03C
RHD051	**(Not display)**	---	001
RHD052	**(Not display)**	---	00A
RHD053	**(Not display)**	---	004
RHD054	**(Not display)**	---	000
RHD055	**(Not display)**	---	000
RHD056	**(Not display)**	---	000
RHD057	**(Not display)**	---	000
RHD058	**(Not display)**	---	000
RHD059	**(Not display)**	---	00B
RHD060	**(Not display)**	---	000
RHD061	**(Not display)**	---	000
RHD062	**(Not display)**	---	000
RHD063	**(Not display)**	---	000
RHD064	**(Not display)**	---	000
RHD065	**(Not display)**	---	000
RHD066	**(Not display)**	---	000
RHD067	**(Not display)**	---	000
RHD068	**(Not display)**	---	000
RHD069	**(Not display)**	---	000
RHD070	**(Not display)**	---	000
RHD071	**(Not display)**	---	000
RHD072	**(Not display)**	---	000
RHD073	**(Not display)**	---	000
RHD074	**(Not display)**	---	000
RHD075	**(Not display)**	---	000
RHD076	**(Not display)**	---	000
RHD077	**(Not display)**	---	000
RHD078	**(Not display)**	---	000
RHD079	**(Not display)**	---	000
RHD080	**(Not display)**	---	000
RHD081	**(Not display)**	---	000
RHD082	**(Not display)**	---	000
RHD083	**(Not display)**	---	000
RHD084	**(Not display)**	---	000

Item No.	Item name	Variable range	Setting value
RHD085	**(Not display)**	---	000
RHD086	**(Not display)**	---	000
RHD087	**(Not display)**	---	000
RHD088	**(Not display)**	---	000
RHD089	**(Not display)**	---	000
RHD090	**(Not display)**	---	000
RHD091	**(Not display)**	---	000
RHD092	**(Not display)**	---	000
RHD093	**(Not display)**	---	000
RHD094	**(Not display)**	---	000
RHD095	**(Not display)**	---	000
RHD096	**(Not display)**	---	000
RHD097	**(Not display)**	---	000
RHD098	**(Not display)**	---	000
RHD099	**(Not display)**	---	000
RHD100	**(Not display)**	---	000
RHD101	**(Not display)**	---	000
RHD102	**(Not display)**	---	000
RHD103	**(Not display)**	---	000
RHD104	**(Not display)**	---	000
RHD105	**(Not display)**	---	000
RHD106	**(Not display)**	---	000
RHD107	**(Not display)**	---	000
RHD108	**(Not display)**	---	000
RHD109	**(Not display)**	---	000
RHD110	**(Not display)**	---	000
RHD111	**(Not display)**	---	000
RHD112	**(Not display)**	---	000
RHD113	**(Not display)**	---	000
RHD114	**(Not display)**	---	000
RHD115	**(Not display)**	---	000
RHD116	**(Not display)**	---	000
RHD117	**(Not display)**	---	000
RHD118	**(Not display)**	---	000
RHD119	**(Not display)**	---	000
RHD120	**(Not display)**	---	000
RHD121	**(Not display)**	---	000
RHD122	**(Not display)**	---	000
RHD123	**(Not display)**	---	000
RHD124	**(Not display)**	---	000
RHD125	**(Not display)**	---	000
RHD126	**(Not display)**	---	000
RHD127	**(Not display)**	---	000
RHD128	**(Not display)**	---	000
RHD129	**(Not display)**	---	000

Item No.	Item name	Variable range	Setting value
RHD130	**(Not display)**	---	000
RHD131	**(Not display)**	---	000
RHD132	**(Not display)**	---	000
RHD133	**(Not display)**	---	000
RHD134	**(Not display)**	---	000
RHD135	**(Not display)**	---	000
RHD136	**(Not display)**	---	000
RHD137	**(Not display)**	---	000
RHD138	**(Not display)**	---	000
RHD139	**(Not display)**	---	000
RHD140	**(Not display)**	---	000
RHD141	**(Not display)**	---	000
RHD142	**(Not display)**	---	000
RHD143	**(Not display)**	---	000
RHD144	**(Not display)**	---	000
RHD145	**(Not display)**	---	000
RHD146	**(Not display)**	---	000
RHD147	**(Not display)**	---	000
RHD148	**(Not display)**	---	000
RHD149	**(Not display)**	---	000
RHD150	**(Not display)**	---	000
RHD151	**(Not display)**	---	000
RHD152	**(Not display)**	---	000
RHD153	**(Not display)**	---	000
RHD154	**(Not display)**	---	000
RHD155	**(Not display)**	---	000
RHD156	**(Not display)**	---	000
RHD157	**(Not display)**	---	000
RHD158	**(Not display)**	---	000
RHD159	**(Not display)**	---	000
RHD160	**(Not display)**	---	000
RHD161	**(Not display)**	---	000
RHD162	**(Not display)**	---	000
RHD163	**(Not display)**	---	000
RHD164	**(Not display)**	---	000
RHD165	**(Not display)**	---	000
RHD166	**(Not display)**	---	000
RHD167	**(Not display)**	---	000
RHD168	**(Not display)**	---	000
RHD169	**(Not display)**	---	000
RHD170	**(Not display)**	---	000

4.7 ADJUSTMENT PROCEDURE

4.7.1 CHECK ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
B1 POWER SUPPLY check	Signal generator DC voltmeter	S1 connector pin 5 (TP-91) & pin 1(TP-E) [DEF & POWER PWB]		(1) Receive the black and white signal (color off). (2) Connect the DC voltmeter to the pin 5 (TP-91) and pin 1(TP-E) of S1 connector. (3) Confirm that the voltage is DC183V±2.5V.

4.7.2 FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS	Signal generator Remote control unit		FOCUS 1 VR FOCUS 2 VR [FBT]	(1) Receive the crosshatch signal. (2) Select the FULL mode. (3) While watching the screen, adjust the FOCUS 1 VR (Fig.2) to make the horizontal lines as fine and sharp as possible. (Fig.1) (4) Then adjust the FOCUS 2 VR (Fig.2) to make the vertical lines as fine and sharp as possible. (Fig.1) (5) Make sure that when the screen is darkened, the lines remain in good focus.

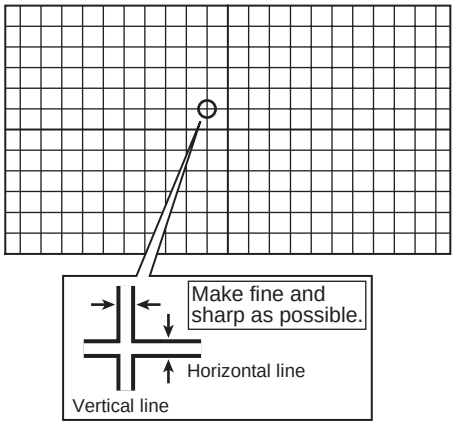


Fig.1

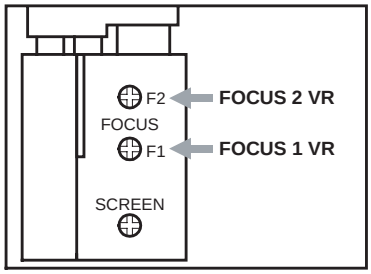


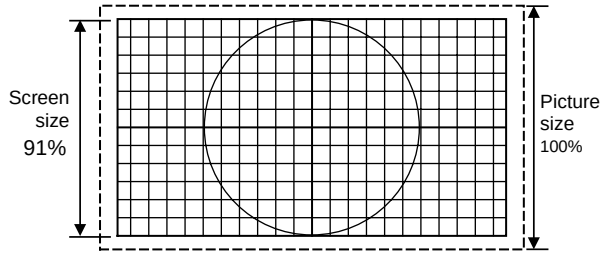
Fig.2

4.7.3 HORIZONTAL FREQUENCY

Item	Measuring instrument	Test point	Adjustment part	Description
H. FREQUENCY	Signal generator Remote control unit		[1.PICTURE/SOUND] D15: H. FREQ. D18: (Not display) (DEF RST OUT)	(1) Receive any broadcast. (2) Select the FULL mode. (3) Select 1.PICTURE/SOUND from the SERVICE MENU. (4) Preset the value from 0 to 1 for the < D18 > (DEF RST OUT). (5) While observing the screen, adjust the < D15 >(H. FREQ.) so that an optimum horizontal synchronization is obtained. (6) Press [MUTING] key to memorize the set value. (7) Select the REGULAR mode. (8) Memorize the same value on REGULAR mode as will. (9) After adjustment, preset the value from 1 to 0 for the < D18 >. (10) Press the [MUTING] key to memorize the set value.

4.7.4 DEFLECTION CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
V. POSITION/ V. SIZE/ V. LINEARITY	Signal generator Remote control unit		[1.PICTURE/SOUND] D01: V. SIZE D05: V. LINE D06: V. CENT	(1) Receive the crosshatch signal. (2) Select the FULL mode. (3) Select 1.PICTURE/SOUND from the SERVICE MENU. (4) Adjust the < D06 > (V.CENT) so that the horizontal line of the vertical center on the crosshatch screen is agreement with the screen center. The screen center (Fig.1) is positioned at both side of the screen vertical center. (5) Adjust the < D01 > (V.SIZE) to (A) setting value as following table and figures. (6) Conform the (V.SIZE) to square the correct. (7) Adjust the linearity of the top (B) and bottom (B) parts of the screen to correct (Fig.1). (8) Press the [MUTING] key to memorize the set value. **NOTE:** • Do not adjust the (D04) < V.S-CORRECTION >. • If it is different V. position after adjusting the V. LIN., adjust the V. position (D01, D05, D06) again. • Memorize the value every time after finishing adjustments on each mode with [MUTING] key.



ASPECT	Setting Value
FULL	91%

Fig.1

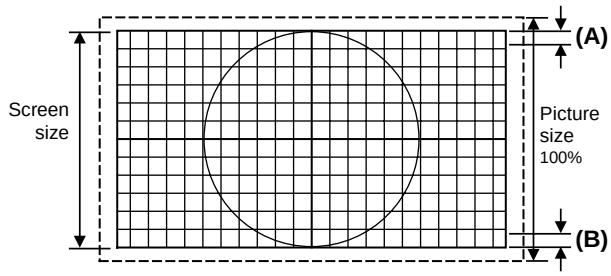


Fig.2

Item	Measuring instrument	Test point	Adjustment part	Description
H. POSITION / H. SIZE / SIDE PIN / TRAPEZIUM	Signal generator Remote control unit		[1.PICTURE/SOUND] D02: EW D03: H. SIZE D07: EW. TRAP D08: BOT. CORN D09: TOP. CORN D14: H. CENTER	(1) Receive the crosshatch pattern. (2) Select the FULL mode. (3) Select 1.PICTURE/SOUND from the SERVICE MENU. (4) Adjust the < D14 > (H.CENTER) so that (A) and (B) become equal (Fig.1). (5) Adjust the < D03 > (H. SIZE) so that screen size is 91.5% of the picture size. (6) Adjust the vertical line to straight by the < D02 > (EW). (7) If the corner pincushions are too bad, adjust the < D09 > (TOP. CORN), < D08 > (BOT. CORN) and < D07 > (EW. TRAP) to get exact corner pincushion of the crosshatch pattern. (8) Press the [MUTING] key to memorize the set value. **NOTE:** • Memorize the values every time after finishing adjustments on each time. • Confirm the H. position by monoscope and if it is different, readjust the H. position again. Repeat the adjustment of the H. size and side pincushion.

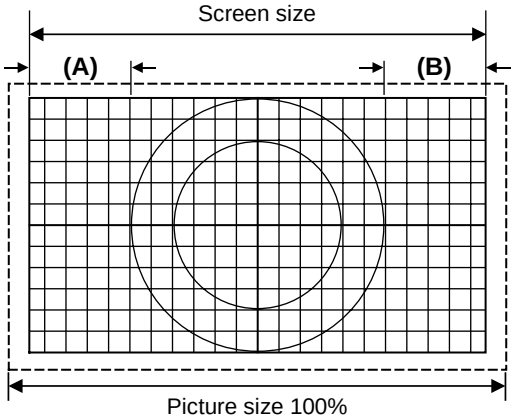
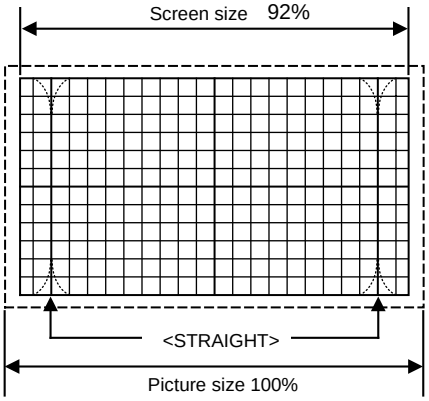


Fig.1



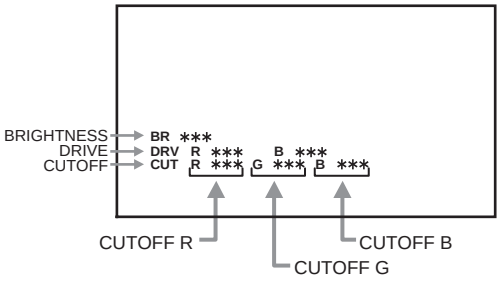
ASPECT	Setting Value
FULL	92%

Fig.2

4.7.5 VIDEO CIRCUIT

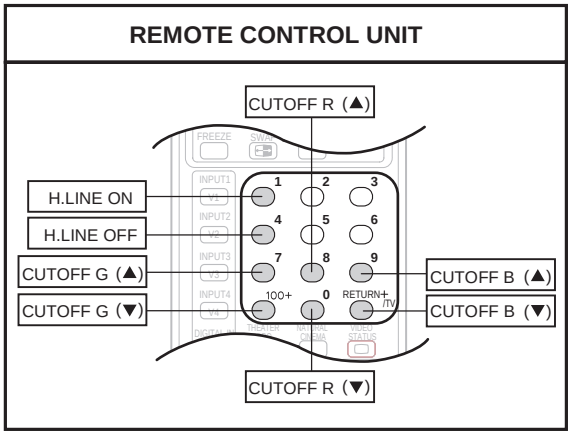
Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (Low Light)	Signal generator Remote control unit		[1.PICTURE/SOUND] S14: CUTOFR S16: CUTOFG S18: CUTOFB [3.WHITE BALANCE] SCREEN VR [FBT]	(1) Input the NTSC black and white pattern(color off). (2) Select the STANDARD mode with [VIDEO STATUS] key. (3) Select the FULL mode. (4) Confirm that the COLOR TEMPERATURE is set at the LOW. (5) Select 1.PICTURE/SOUND from the SERVICE MENU. (6) Confirm the initial setting values of the < S14 > (CUTOFF R), < S16 > (CUTOFF G), < S18 > (CUTOFF B). (7) Select the 3.WHITE BALANCE from SERVICE MENU. (8) Display the horizontal line by pressing the [1] key. (9) Turn the SCREEN VR all the way to the left, then turn it gradually clockwise until either one of the red, blue or green color is faintly visible. (10) Use the [7]~[9], [100+], [0], [RETURN+/TV] keys and adjust the other 2 colors to where the horizontal line appears white. (11) Press the [MUTING] key to memorize the set value. (12) Press the [4] key to release the horizontal line mode. (13) If there is a gap with the setting values, repeat the steps 5. to 11. for readjustment. (14) Input the 480i component video signal to COMPONENT VIDEO terminal. (15) Repeat the steps 5. to 11. as above. (16) Confirm the 480i low-light at the 3.WHITE BALANCE has been adjusted properly. (17) Input the 1080i component video signal to the COMPONENT VIDEO terminal. (18) Repeat the steps 5. to 11. as above. (19) Confirm that 1080i low-light at the 3.WHITE BALANCE has been adjusted properly.

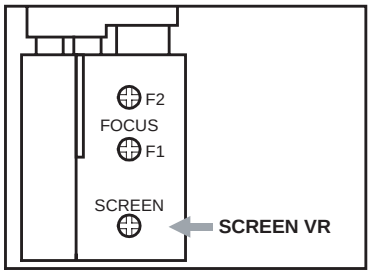
3. WHITE BALANCE



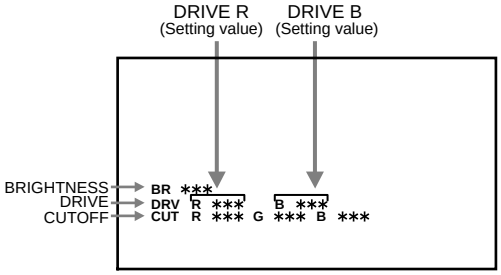
Adjustment item	Setting value
S14: CUTOFR	196
S16: CUTOFG	196
S18: CUTOFB	196
S20: CUTOFSWR	1
S21: CUTOFSWG	1
S22: CUTOFSWB	1

REMOTE CONTROL UNIT

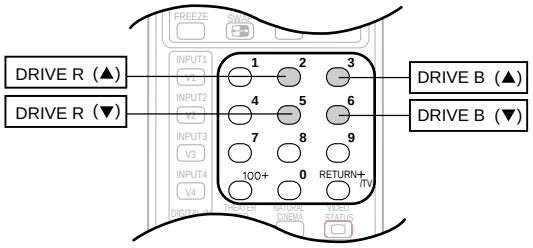




Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (High Light)	Signal generator Remote control unit		[1.PICTURE/SOUND] S10: DRIVE R S12: DRIVE B [3.WHITE BALANCE]	(1) Input the NTSC black and white signal (color off). (2) Select the STANDARD mode with [VIDEO STATUS] key. (3) Select the FULL mode. (4) Confirm that the COLOR TEMPERATURE is set at the LOW. (5) Select 1.PICTURE/SOUND from the SERVICE MENU. (6) Confirm the initial setting values of the < S10 > (DRIVE R) and < S12 > (DRIVE B). (7) Select the 3.WHITE BALANCE from SERVICE MENU. (8) Use the [2] and [5] or [3] and [6] to produce a white screen. (9) Press the [MUTING] key to memorize the set value. (10) Make sure that the WHITE BALANCE tracking from the LOW-LIGHT through the HIGH-LIGHT has been properly done. [When the black and white signal (color off) is received, the natural white should be visible.] (11) Input the 480i component video signal to COMPONENT VIDEO terminal. (12) Repeat the steps 5. to 9. as above. (13) Input the 1080i component video signal to COMPONENT VIDEO terminal. (14) Repeat the steps 5. to 9. as above. (15) If there is a gap with the initial setting values, repeat the steps 5. to 9. for readjustment.



REMOTE CONTROL UNIT



Item	Measuring instrument	Test point	Adjustment part	Description
SUB BRIGHT	Remote control unit		[1.PICTURE/SOUND] S03: BRIGHT	(1) Receive the NTSC color bar signal. (2) Select the STANDARD mode with [VIDEO STATUS] key. (3) Select the FULL mode. (4) Confirm that the COLOR TEMPERATURE is set at the LOW. (5) Select 1.PICTURE/SOUND from the SERVICE MENU. (6) Set the initial setting value of the < S03 > (BRIGHT). (7) If the brightness is not the best with initial setting value, make fine adjustment of the < S03 > until you get the best brightness. (8) Press the [MUTING] key to memorize the set value. (9) Select the THEATER mode with [VIDEO STATUS] key. (10) Repeat the steps 5. to 8. as above. (11) Input the 480i component color bar signal. (12) Repeat the steps 2. to 10. as above. (13) Input the 1080i component color bar signal. (14) Repeat the steps 2. to 10. as above.
SUB CONTRAST	Remote control unit		[1.PICTURE/SOUND] S04: CONTRAST	(1) Receive the NTSC color bar signal. (2) Select the STANDARD mode with [VIDEO STATUS] key. (3) Select the FULL mode. (4) Confirm that the COLOR TEMPERATURE is set at the LOW. (5) Select 1.PICTURE/SOUND from the SERVICE MENU. (6) 6.Set the initial setting value of the < S04 > (CONTRAST). (7) 7.If the contrast is not the best with the initial setting value, make fine adjustment of the < S04 > until you get the optimum contrast. (8) Press the [MUTING] key to memorize the set value. (9) Select the THEATER mode with [VIDEO STATUS] key. (10) Repeat the steps 5. to 8. as above. (11) Input the 480i component color bar signal. (12) Repeat the steps 2. to 10. as above. (13) Input the 1080i component color bar signal. (14) Repeat the steps 2. to 10. as above.

Item	Measuring instrument	Test point	Adjustment part	Description
SUB COLOR / SUB TINT / B-Y GAIN	Signal generator Remote control unit		[1.PICTURE/SOUND] S01: COLOR S02: TINT S07: B-Y	**[Method of adjustment without measuring instrument]** (1) Receive the composite NTSC color bar signal. (2) Select the STANDARD mode with [VIDEO STATUS] key. (3) Select the FULL mode. (4) Select 1.PICTURE/SOUND from the SERVICE MENU. (5) Set the initial setting values of the < S01 > (COLOR) and < S02 > (TINT). (6) If the color or tint is not the best with the initial setting values, make fine adjustment until you get the best color or the best tint. (7) Set the initial setting values of the < S07 > (B-Y). (8) If the color bar is not clearly with the initial setting value, make fine adjustment until you get the clearly color bar. (9) Press the [MUTING] key to memorize the set value. (10) Select the THEATER mode with [VIDEO STATUS] key. (11) Repeat the steps 4. to 9. as above. (12) Input the 480i component color bar signal to COMPONENT VIDEO terminal. (13) Repeat the steps 2. to 11. as above. (14) Input the 480p component color bar signal to COMPONENT VIDEO terminal. (15) Repeat the steps 2. to 11. as above. (16) Input the 1080i component color bar signal to COMPONENT VIDEO terminal. (17) Repeat the steps 2. to 11. as above.

Item	Measuring instrument	Test point	Adjustment part	Description
SUB COLOR / SUB TINT / B-Y GAIN	Signal generator Oscilloscope Remote control unit	TP-R TP-B TP-E	[1.PICTURE/SOUND] S01: COLOR S02: TINT S07: B-Y	**[Method of adjustment using measuring instrument]** (1) Receive the composite NTSC COLOR BAR (75% white) signal. (2) Select the FULL mode. (3) Connect the oscilloscope between TP-R and TP-E. (4) Select the STANDARD mode with [VIDEO STATUS] key. (5) Select 1.PICTURE/SOUND from the SERVICE MENU. (6) Adjust the < S01 > (COLOR) and < S02 > (TINT) to be the following setting value A [V] (Fig.3). (7) Connect the oscilloscope between TP-B and TP-E. (8) Adjust the < S07 > (B-Y) to be setting value C [V] (Fig.3). (9) Press the [MUTING] key to memorize the set value. (10) Select the THEATER mode with [VIDEO STATUS] key. (11) Adjust the < S01 > and < S02 > to be the following setting value B [V] (Fig.3). (12) Adjust the < S07 > to be setting value D [V] (Fig.3). (13) Press the [MUTING] key to memorize the set value. (14) Input the 480i component color bar signal to COMPONENT VIDEO terminal. (15) Repeat the steps 2. to 13. as above. (16) Input the 480p component color bar signal to COMPONENT VIDEO terminal. (17) Repeat the steps 2. to 13. as above. (18) Input the 1080i component color bar signal to COMPONENT VIDEO terminal. (19) Repeat the steps 2. to 13. as above. **NOTE:** • Confirm that the low-light is not different after adjusting COLOR, TINT and B-Y. If it is green or magenta, adjust the low-light again. • If the readjustment is carried out, set the off set values again.

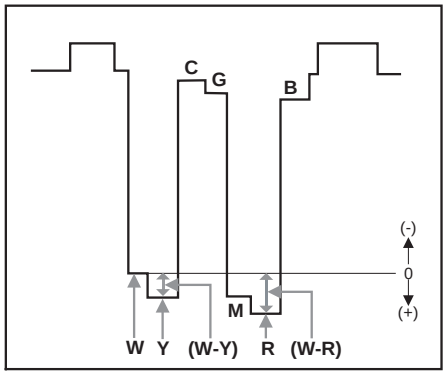


Fig.1

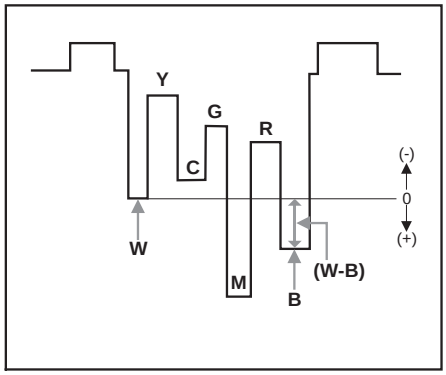
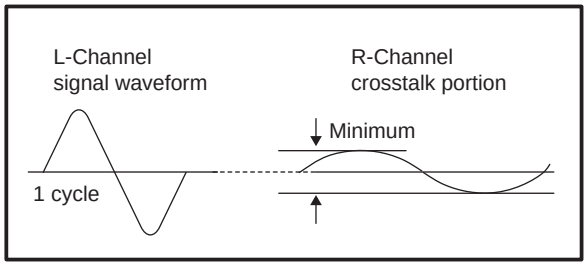


Fig.2

Setting item / Signal	A[V]		B[V]		C[V]	D[V]
	STNADARD		THEATER		STNADARD	THEATER
	S01 (W-R)	S02 (W-Y)	S01 (W-R)	S02 (W-Y)	S01 (W-B)	S01 (W-B)
NTSC	+48	+13	+19	-1	+15	+4
480i	+37	+17	+11	+3	+4	-3
480p	+39	+17	+16	+1	0	-4
1080i	+26	+4	+7	+1	-10	-10

Fig.3

4.7.6 MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL Check	MPX Signal generator Remote control unit		[1.PICTURE/SOUND] A01: IN LEVEL	(1) Input the color bar signal (400Hz). (2) Select 1.PICTURE/SOUND from the SERVICE MENU. (3) Verify that the < A01 > (IN LEVEL) is set at its initial setting value. (4) Press the [MUTING] key to memorize the set value.
MTS SEPARATION adjustment	TV audio multiplex signal generator Oscilloscope Remote control unit	L OUT R OUT	[1.PICTURE/SOUND] A02: LOW SEP A03: HI SEP	(1) Input the stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal. (2) Connect an oscilloscope to L OUT pin of the AUDIO OUT, and display one cycle portion of the 300Hz signal. (3) Change the connection of the oscilloscope to R OUT pin of the AUDIO OUT, and enlarge the voltage axis. (4) Select 1.PICTURE/SOUND from the SERVICE MENU. (5) Set the initial setting value of the < A02 > (LOW SEP). (6) Adjust the < A02 > so that the stroke element of the 300Hz signal will become minimum. (7) Change the signal to 3kHz, and similarly adjust the < A03 > (HI SEP). (8) Press the [MUTING] key to memorize the set value.
				

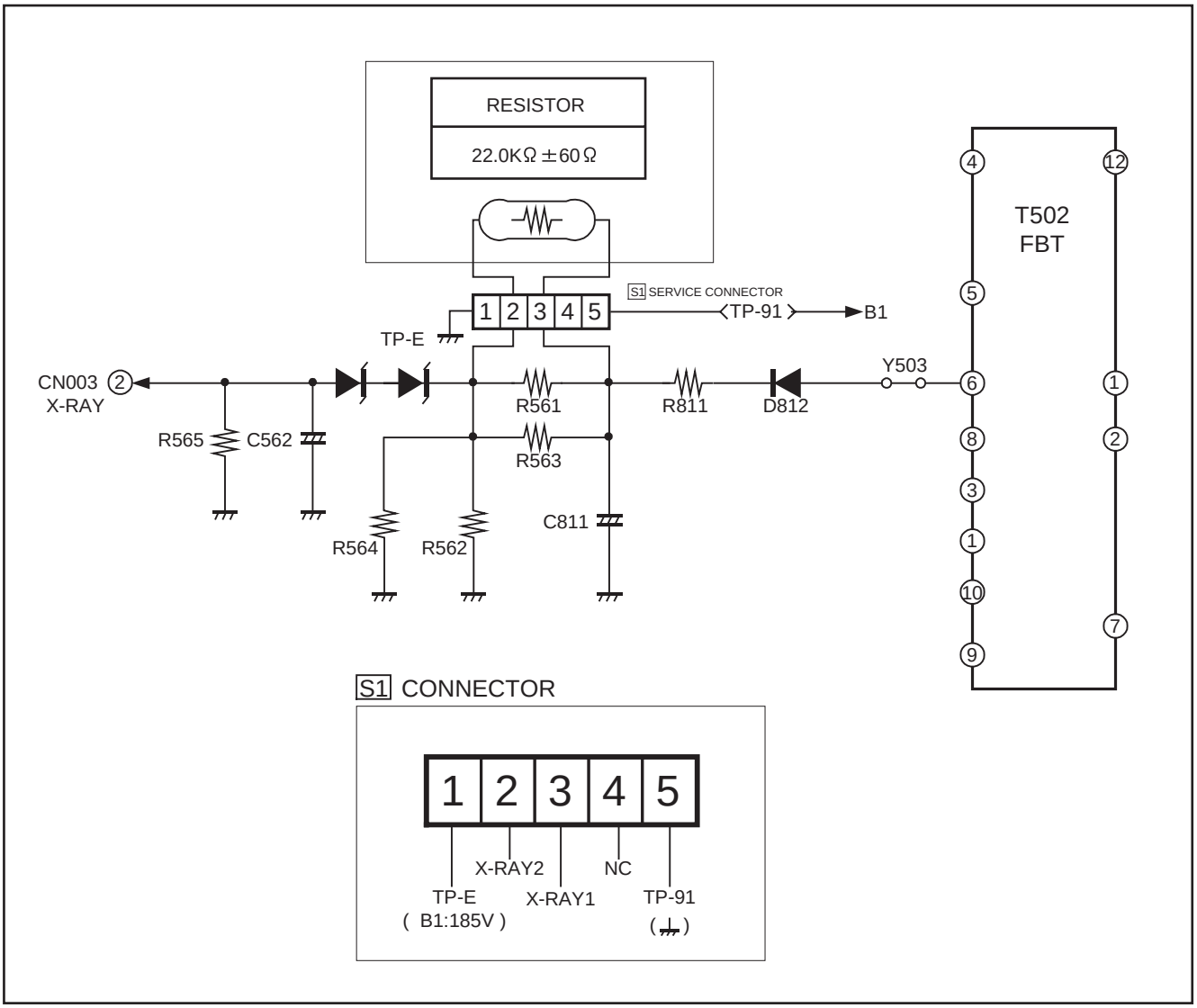
4.8 HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

4.8.1 HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit.
This circuit shall be checked to operate correctly.

4.8.2 CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

(1) Turn the power sw ON.
(2) As shown in figure bellow, set the resistor (between [S1] connector [2] & [3]).
(3) Make sure that the screen picture disappears (no raster).
(4) Temporarily unplug the power cord.
(5) Remove the resistor (between [S1] connector [2] & [3]).
(6) Again plug the power cord, make sure that normal pictures is displayed on the screen.



SECTION 5
TROUBLESHOOTING

5.1 SELF-DIAGNOSIS FEATURE

5.1.1 OUTLINE

This unit comes with the "Self-diagnosis" feature, which checks the operational state of the circuit and displays/saves it during failure. Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time. Diagnosis is displayed in 2 ways via screen display and LED flashes. Failure detection is based on input state of I2C bus and the various control lines connected to the main microcomputer.

5.1.2 HOW TO ENTER THE SELF-DIAGNOSIS MODE

(1) Press the [SLEEP TIMER] key of the remote control unit and set the SLEEP TIMER 30 MIN.
(2) While it is being displayed, press the [DISPLAY] key and [VIDEO STATUS] key simultaneously.
(3) The TEST MODE screen is displayed.
(4) Press the [4] key.
The self-diagnosis screen is displayed.

TEST MODE SCREEN

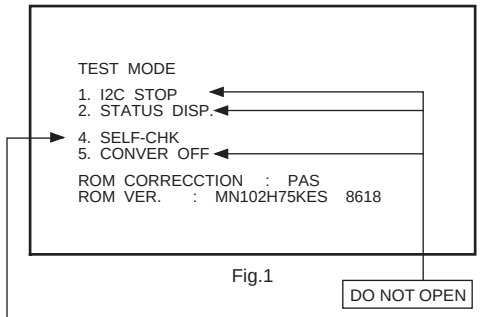


Fig.1

DO NOT OPEN

S

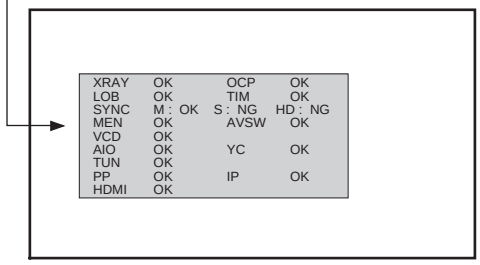


Fig.2

5.1.3 HOW TO EXIT THE SELF-DIAGNOSIS MODE

Other exit from the SELF-DIAGNOSIS.

■ **WITH INITIALIZATION**

By using the remote controller unit, turn the power off.
At this time, the failure record is cleared.

■ **WITH NOT INITIALIZATION**

Take off the AC plug from the wall outlet. At this time, the failure record is not cleared.

5.1.4 FAILURE HISTORY

The latest failure is stored on the record at the end.
The failure record for each check item is counted to the number of 9 at the maximum.
Only SYNC is not counted and memorized.

5.1.5 POINTS TO NOTE WHEN USING THE SELF-DIAGNOSIS FEATURE

In addition to circuit failures (abnormal operation),the following cases may also be diagnosed as "Abnormal" and displayed and counted as "NG".

(1) Temporary defective transmissions across circuits due to pulse interruptions
(2) Misalignment in the on/off timing of power for I^2C bus (Vcc) when turning on/off the main power.

- Because of the timing of Vcc start-up and shutdown of the IC connecting to the I^2C bus during which the power is turned on and off, the operation may be interpreted as an error. In order to avoid the misinterpretation, the self- diagnosis functions should be started at about 3 seconds after the power is turned on.
  If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnosis results.

5.1.6 SELF-DIAGNOSIS DETAILS

Indication	Check Item	Details of detection	Method of detection
XRAY	X-ray protection	------	------
OCP	B1 over-current protection	B1 over-current is detected. Q2971 (POWER & DEF PWB)	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 200ms, the power is turned off automatically.
LOB	Low B protection	Operation of low B protection circuit. 5V: Q1961, 9V: Q1962 (MAIN PWB)	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 200ms, the power is turned off automatically.
LOB	CRT neck protection	Operation of CRT neck protection circuit. Q2401 (POWER & DEF PWB)	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 1.5s, the power is turned off automatically.
TIM	Timer (clock)	The power frequency is changed as follows: 50Hz→60Hz / 60Hz→50Hz IC1701:pin 17 (MI-COM & DIST MODULE PWB)	Periodically check the power frequency by counting the AC pulse and monitor whether or not the frequency is changed except for the time immediately after resetting.
MEM	Main memory	ACK is returned when I2C traffic is carried out. IC1703 (memory) (MAIN PWB)	The state is monitored every time when I2C traffic is carried out. Then the state is counted as a failure if ACK is not returned.
AVSW	AV switch	Ditto IC1501 (MAIN PWB)	Ditto
VCD	Video process	Ditto IC1301 (MAIN PWB)	Ditto
AIO	Audio	Ditto IC0201 (RECEIVER PWB)	Ditto
YC	3D YC separation	Ditto IC3001 (MAIN PWB)	Ditto
TUN	RF tuner	Ditto MAIN: TU0102 (RECEIVER PWB) SUB: TU1101 (MAIN PWB)	Ditto
PP	Multi screen	Ditto IC1001 (MI-COM & DIST MODULE PWB)	Ditto
IP	DIST process	Ditto IC1001 (MI-COM & DIST MODULE PWB)	Ditto
HDMI	DVI (Digital input) process	Ditto IC7001 (DIGITAL INPUT MODULE PWB)	Ditto
SYNC	Presence or absence of synchronized signal	Presence of synchronized signal. HD: HD system / M: NTSC main / S: NTSC sub IC1301 (AN15394A) : (MI-COM & DIST MODULE PWB)	When entering the self-check mode, "OK" is shown. While running the mode with picture signal, if the synchronized signal is disappeared, "NG" is shown.

5.1.7 SELF CHECK DISPLAY BY LED

The self-check results are shown on the following LED display.
Method of indication when the raster is not displayed.
Each failure is shown by turning LED on and off at the specified intervals.

- For B1 over-current protection, CRT neck protection and Low B protection, the power of the TV is turned off, if NG is detected. Immediately after the power is turned off, POWER LED will be turning on and off. When the power is turned off, you cannot turn the power on again until the AC plug is taken out and put in again.

Item	POWER LED ON / OFF intervals
B1 over-current protection	Tumingon and off at 1-second intervals
Low B protection	Tumingon and off at 2-second intervals
CRT neck protection	Tumingon and off at 3-second intervals

JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
www.jvcservice.com(US Only)

JVC CANADA INC.
Head office : 21 Finchdene Square Scarborough, Ontario M1X 1A7 (416)293-1311

(No.52170)

Printed in Japan
WPC

JVC

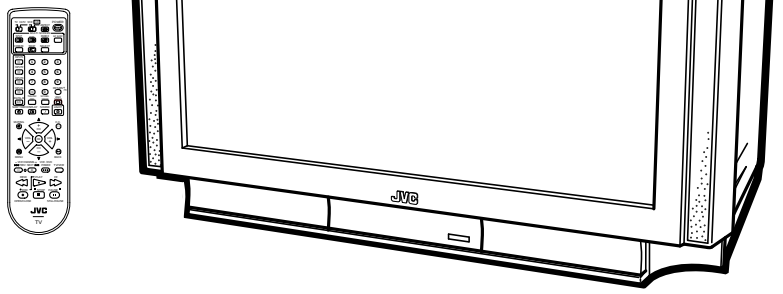
SCHEMATIC DIAGRAMS

COLOR TELEVISION

AV-34WP84/ZA

CD-ROM No.SML200311

BASIC CHASSIS
SB4



I'Art PRO

BBE

COPYRIGHT © 2003 VICTOR COMPANY OF JAPAN, LIMITED

No.52170
2003/10

AV-34WP84/ZA

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety ciritical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	: DC 20kΩ/V
(4)Oscilloscope sweeping time	: H ⇒ 20µs / div
	: V ⇒ 5ms / div
	: Othters ⇒ Sweeping time is specified
(5)Voltage values	: All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	: [Ω]
K	: [kΩ]
M	: [MΩ]

● Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

● Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	: [pF]
less than 1	: [µF]

● Withstand voltage

No indication	: DC50[V]
Others	: DC withstand voltage [V]
AC indicated	: AC withstand voltage [V]

∗ Electrolytic Capacitors

47/50[Example]: Capacitance value [µF]/withstand voltage[V]

● Type

No indication	: Ceramic capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3)Coils

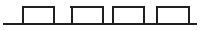
No unit	: [µH]
Others	: As specified

(4)Power Supply

: B1

: B2 (12V)

: 9V


: 5V

∗ Respective voltage values are indicated

(5)Test point

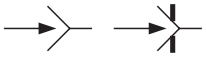
: Test point

: Only test point display

(6)Connecting method

: Connector

: Wrapping or soldering


: Receptacle

(7)Ground symbol

: LIVE side ground

: ISOLATED(NEUTRAL) side ground

: EARTH ground

: DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

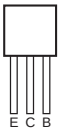
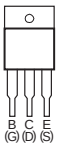
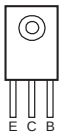
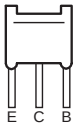
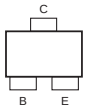
◆ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

CONTENTS

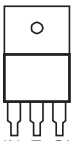
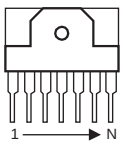
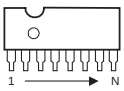
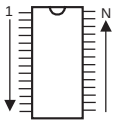
SEMICONDUCTOR SHAPES 2-2
BLOCK DIAGRAM 2-3
CIRCUIT DIAGRAMS 2-5
MAIN PWB CIRCUIT DIAGRAM 2-5
RECEIVER PWB CIRCUIT DIAGRAM 2-29
CRT SOCKET PWB CIRCUIT DIAGRAM 2-31
POWER & DEF PWB CIRCUIT DIAGRAM 2-33
DEF OSC PWB CIRCUIT DIAGRAM 2-35
LINE FILTER PWB CIRCUIT DIAGRAM 2-37
FRONT CONTROL PWB CIRCUIT DIAGRAM 2-39
FRONT SENSOR PWB CIRCUIT DIAGRAM 2-40
FRONT JACK PWB CIRCUIT DIAGRAM 2-41
FRONT SW PWB CIRCUIT DIAGRAM 2-43
PATTERN DIAGRAMS 2-45
MAIN PWB PATTERN 2-45
RECEIVER PWB PATTERN 2-49
CRT SOCKET PWB PATTERN 2-51
DEF OSC PWB PATTERN 2-52
POWER & DEF PWB PATTERN 2-53
LINE FILTER CONTROL PWB PATTERN 2-55
FRONT SW PWB PATTERN 2-55
FRONT CONTROL PWB PATTERN 2-55
FRONT JACK PWB PATTERN 2-56
FRONT SENSOR PWB PATTERN 2-56
CHANNEL CHART (US) 2-57
CHANNEL CHART (CA) 2-58

SEMICONDUCTOR SHAPES

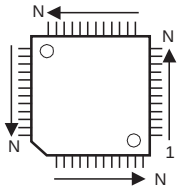
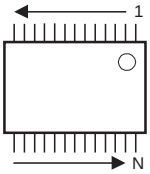
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

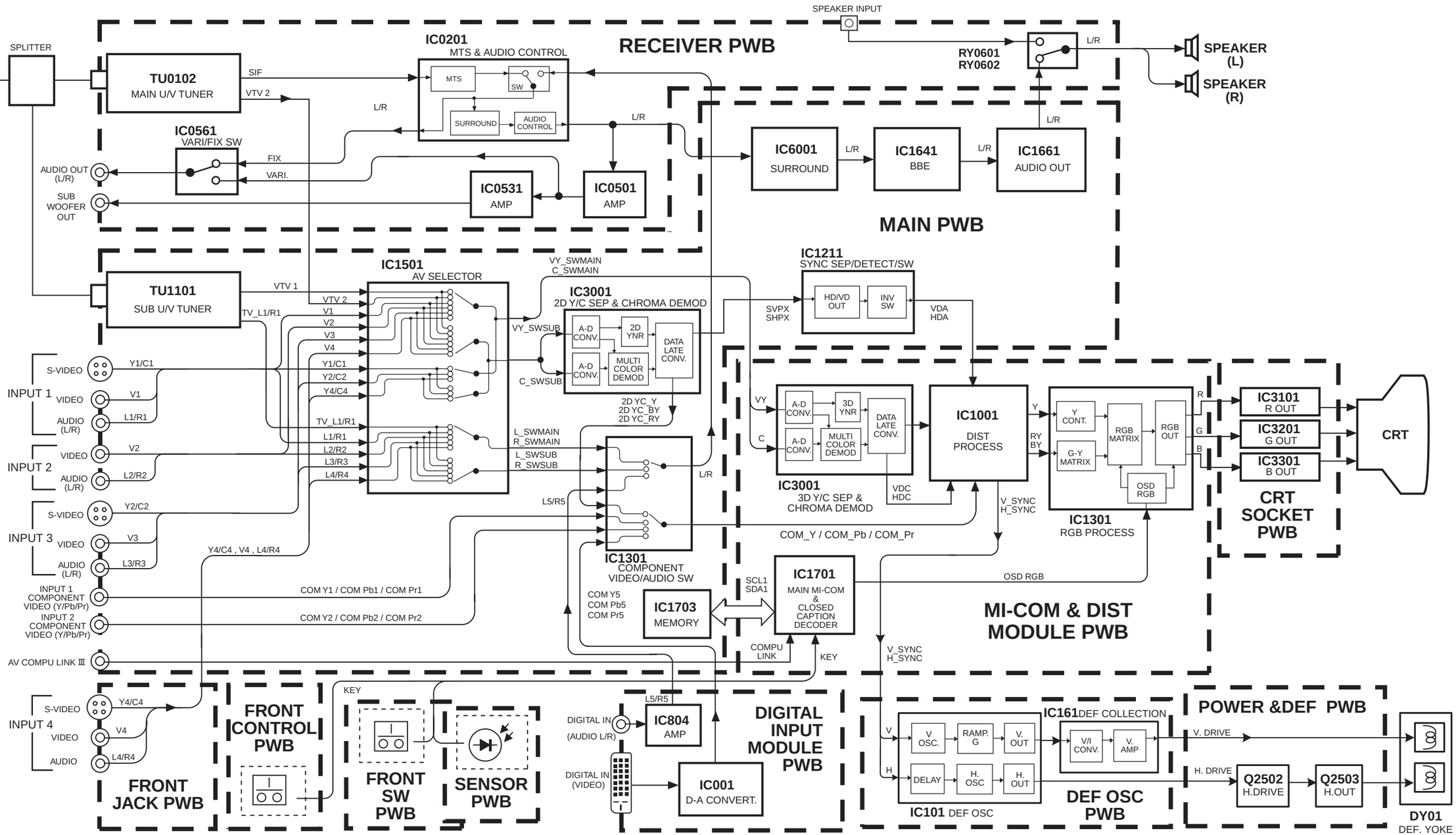
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

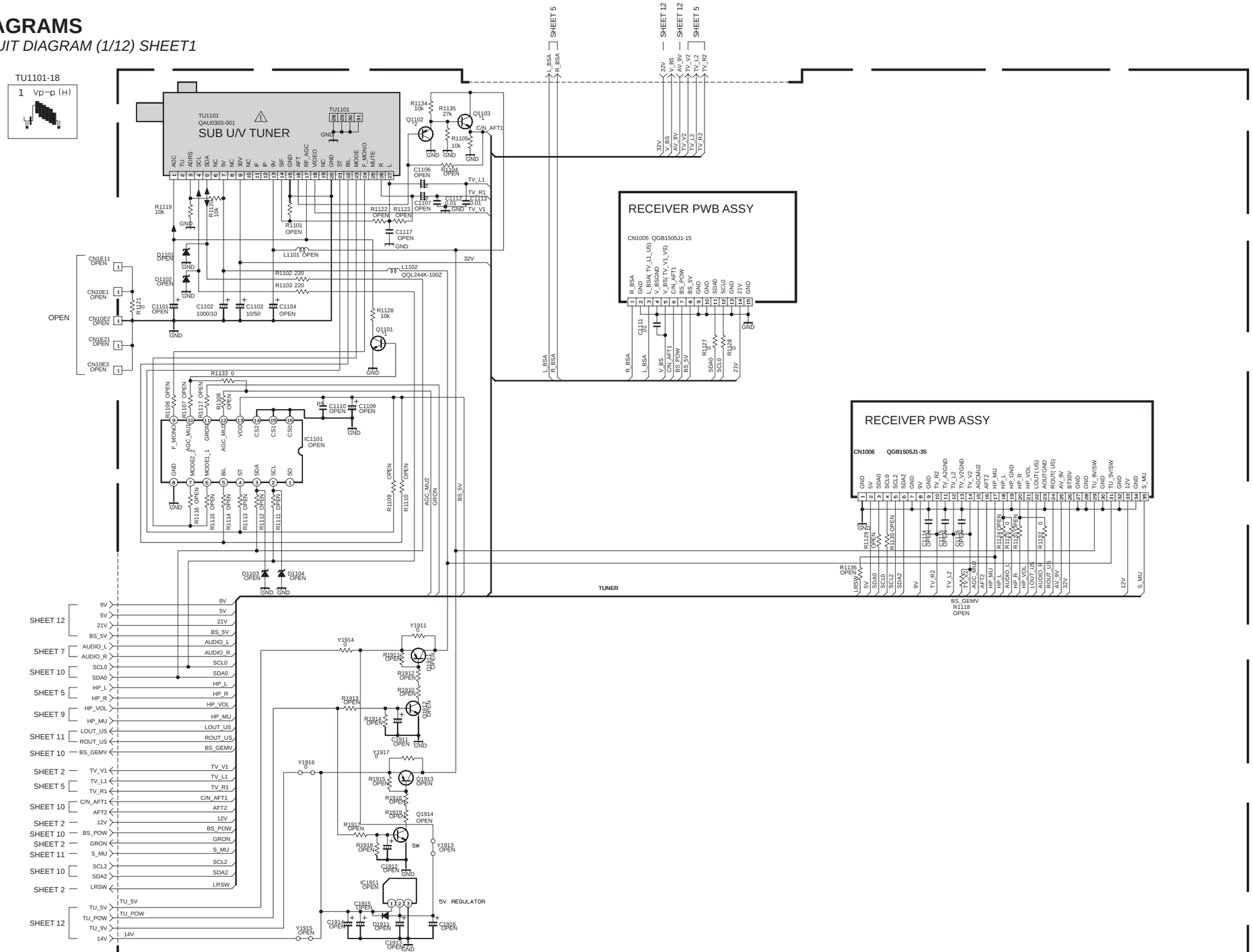
TOP VIEW		
		

BLOCK DIAGRAM



CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/12) SHEET1



PIN NO.	VOLTAGE (V)
TU1101	
1	4.1
2	NC
3	2.5
4	3.9
5	4.1
6	NC
7	5
8	NC
9	33.5
10	NC
11	NC
12	NC
13	0
14	2.3
15	0
16	0.6
17	4.1
18	2.5
19	NC
20	0
21	0
22	0
23	0
24	0
25	NC
26	0
27	0
Q1101	
E	0
C	4.1
B	0
Q1102	
E	0.9
C	0
B	0.2
Q1103	
E	0.3
C	8.9
B	0.8

MAIN PWB ASS'Y (1/12) [TUNER PART]
SSB-1076A-M2

MAIN PWB ASS'Y (2/12) [GR BASE PART]
SSB-1076A-M2

PIN NO.	VOLTAGE (V)
Q0701	
S	3.1
D	2.5
G	4.3
Q0702	
S	3.1
D	2.5
G	4.3

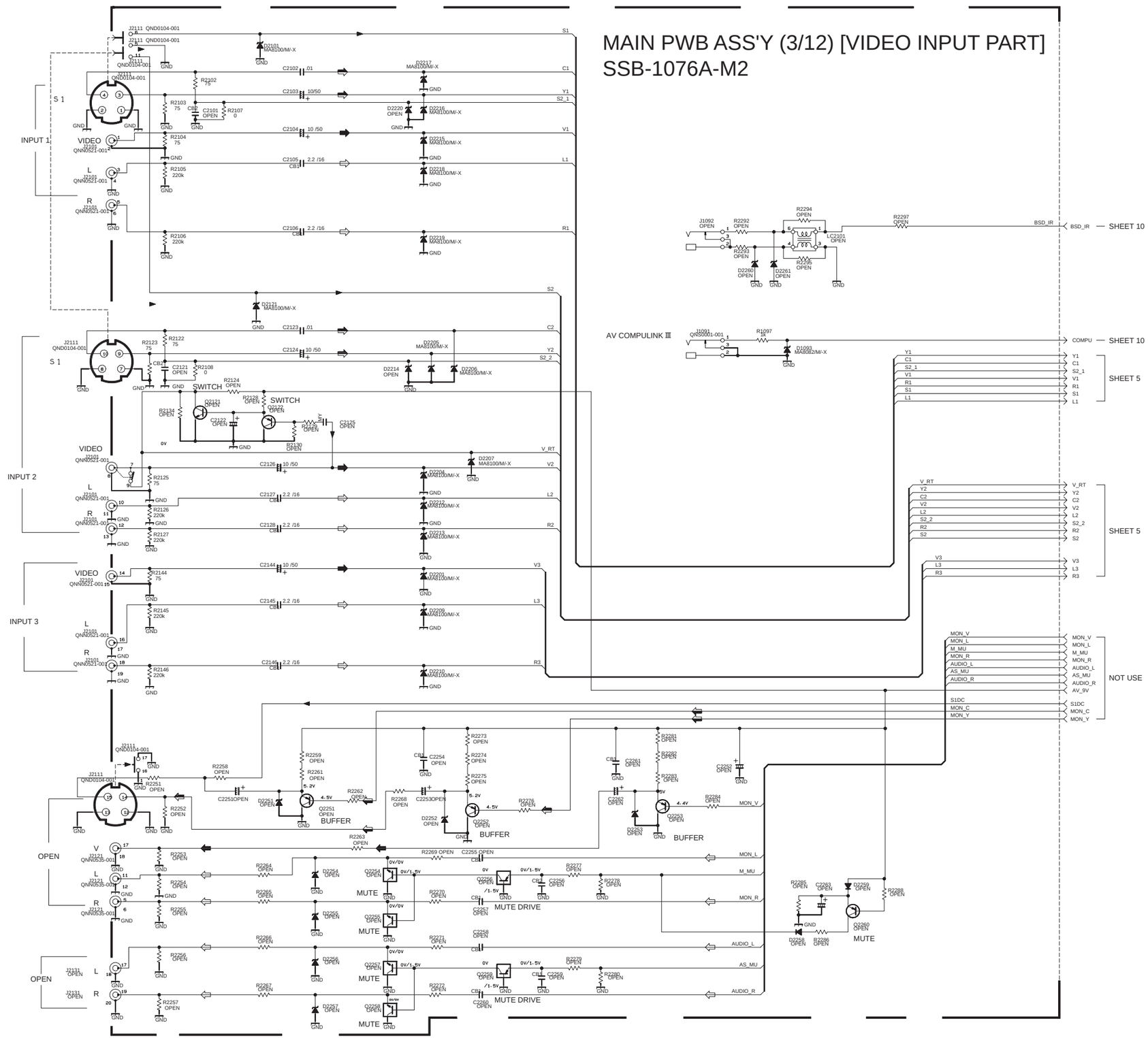
SHEET 12 — 12V — 12V
SHEET 1 — TV_V1 — TV_V1
C0603 OPEN
C0608 OPEN
R0606 0
SHEET 12 — A3.3V — A3.3V
SHEET 12 — 3.3V — 3.3V
R0707 0
R0708 OPEN
R0709 OPEN
R0747 OPEN
C0701 OPEN
GND
GND-ANL
C0703 OPEN
D0702 OPEN
R0703 OPEN
D0748 OPEN
R0702 OPEN
D0705 OPEN
D0749 OPEN
C0748 OPEN
IC0702 OPEN
OUT GND VCC NC
RESET
R0701 OPEN
C0741 OPEN
R0743 OPEN
R0744 OPEN
SDA0
Q0701 2SK2090-X
R0705 10k
SCL0
Q0702 2SK2090-X
R0706 10k
SHEET 9 — GR_RST — GR_RST
SHEET 12 — 5V — 5V
L0501 OPEN
L0502 0
C0501 OPEN
C0503 OPEN
IC0501 OPEN
CK Vcc D PR NC Q CLR GND Q
C0502 OPEN
IC0502 OPEN
Vin3 SW2 VDD Vin2 Vout SW1 GND Vin1
C0801 OPEN
R0510 OPEN
R0511 0
C0505 OPEN
R0503 OPEN
R0505 OPEN
R0501 OPEN
SHEET 1 — GRON — GRON
SHEET 5 — GRVOUT — GRVOUT
GND

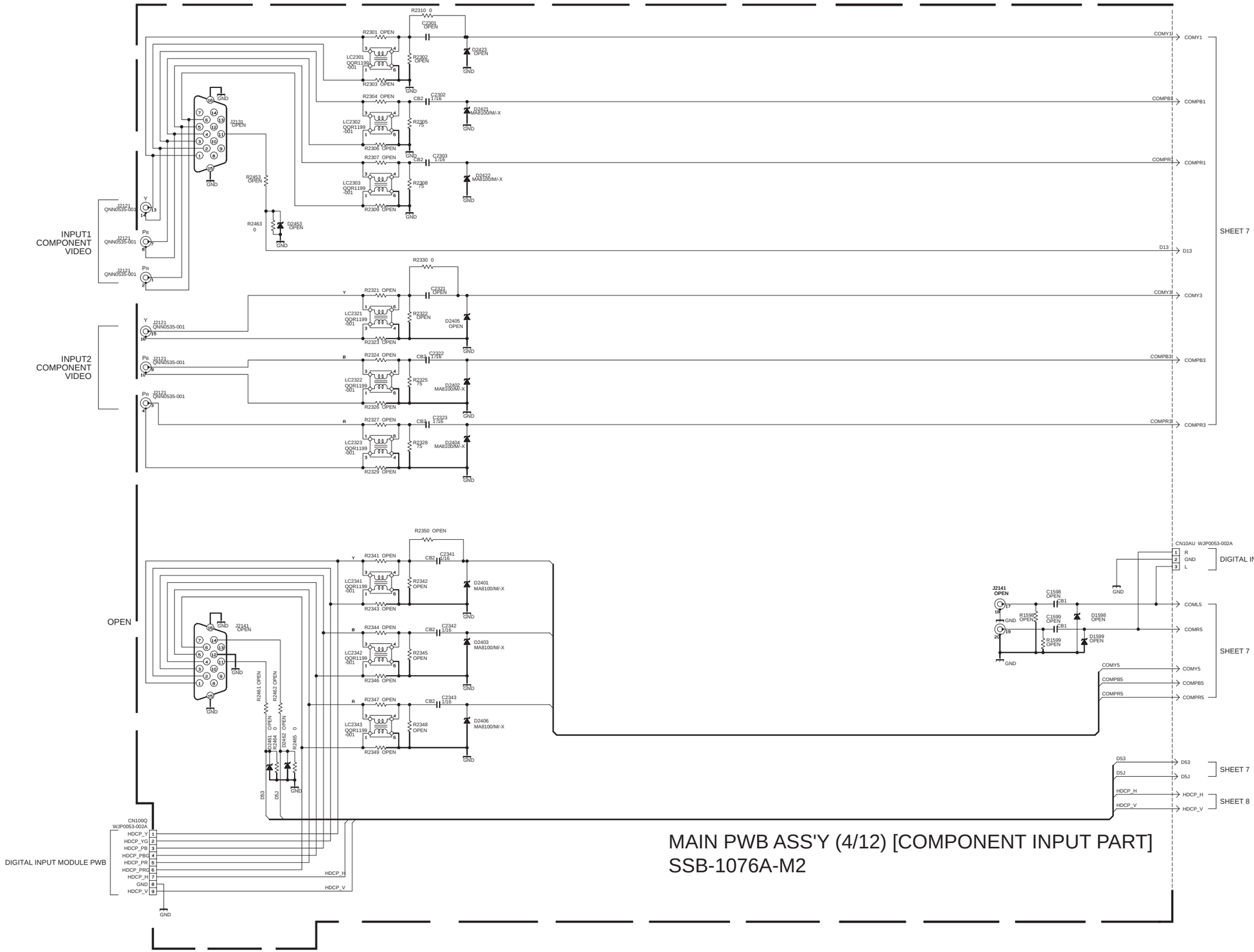
NJM2235/CTL

SW1	SW2	Vout
L	L	Vin1
H	L	Vin2
L/H	H	Vin3

CN10DC QGA2501C5-04Z
1 GND
2 5V
3 12V
4 3.3V
DIGITAL INPUT MODULE PWB
GND R0712 OPEN
R0711 OPEN
MD
CN10GR
1 12V
2 TV-V1
3 A3.3V
4 3.3V
5 GND
6 RESET
7 5V
8 TV-OUT
9 V-DRIVE
10 SDA0
11 SCL0
OPEN
SCL0_3.3
SDA0_3.3
SHEET 6
SCL0
SDA0
SHEET 10
R0634 R0635 R0636
R0631 R0632 R0633 OPEN OPEN OPEN
GND
DIGITAL INPUT MODULE PWB
CN10SR QJB003-052620
1 SCL
2 GND
3 SDA
4 LRSW
5 HDMI_IR
GND
HDMI_IR
LRSW

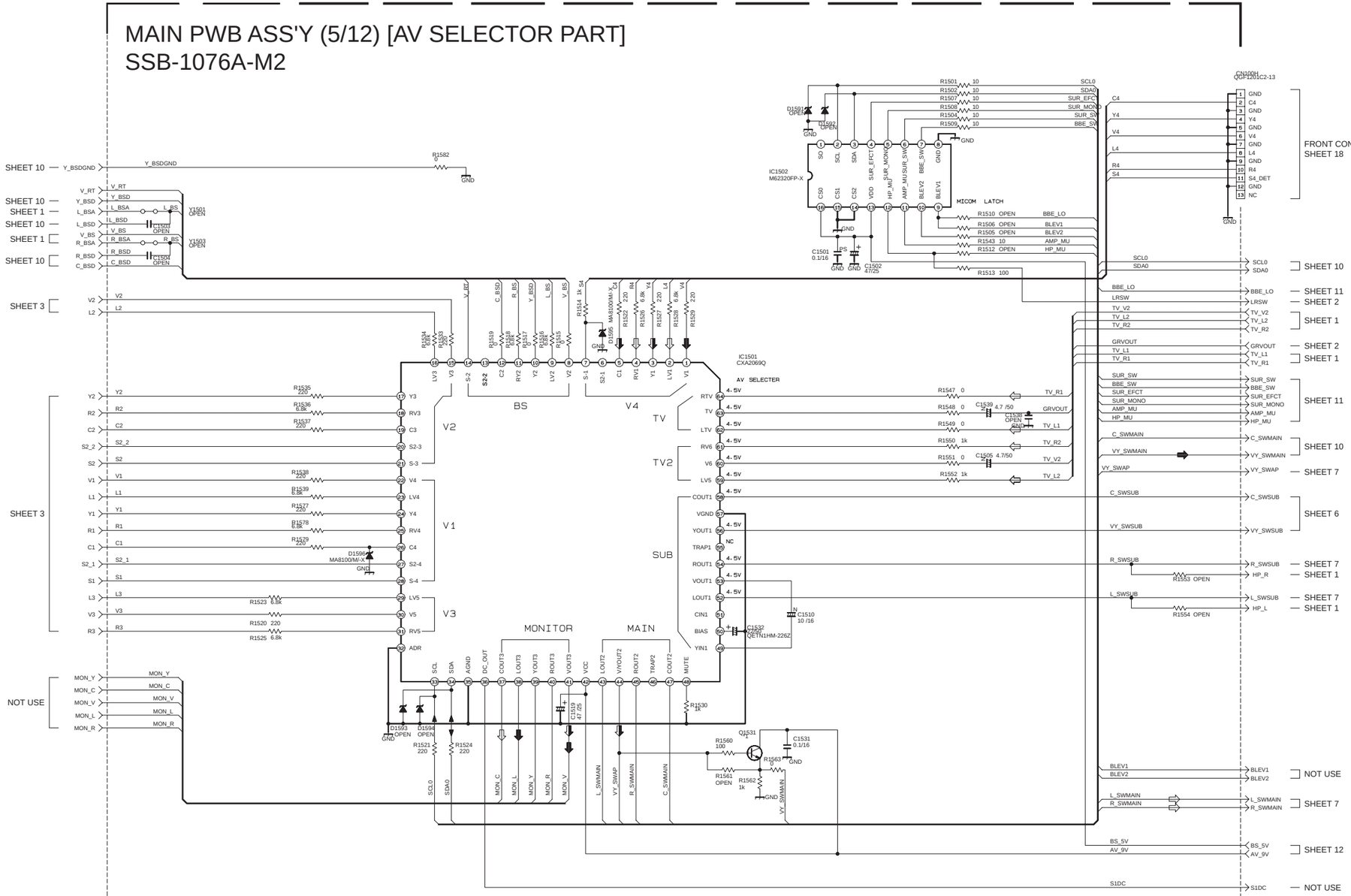
MAIN PWB ASS'Y (3/12) [VIDEO INPUT PART]
SSB-1076A-M2





MAIN PWB ASS'Y (4/12) [COMPONENT INPUT PART]
SSB-1076A-M2

MAIN PWB ASS'Y (5/12) [AV SELECTOR PART]
SSB-1076A-M2



PIN NO.	VOLTAGE (V)
IC1501	
1	3.8
2	0
3	3.8
4	4.4
5	4.3
6	NC
7	4.9
8	3.8
9	0
10	3.8
11	0
12	0
13	NC
14	0
15	3.8
16	4.4
17	3.8
18	0
19	4.3
20	0
21	4.9
22	3.9
23	4.4
24	3.8
25	4.4
26	4.3
27	0
28	4.9
29	4.3
30	3.9
31	4.3
32	0
33	3.8
34	4.3
35	0
36	0
37	4.3
38	0
39	3.5
40	4.4
41	3.3
42	8.9
43	4.4
44	4.4
45	4.4
46	NC
47	4.3
48	0
49	6
50	0
51	NC
52	4.4
53	6.5
54	4.4
55	NC
56	5.9
57	0
58	4.2
59	4.4
60	4.2
61	4.4
62	4.4
63	5.4
64	4.4
IC1502	
1	NC
2	4
3	4
4	0
5	0
6	0
7	5.1
8	0
9	0
10	0
11	0
12	0
13	5.1
14	0
15	0
16	5.1

PIN NO.	VOLTAGE(V)
IC3001	
1	0
2	3.3
3	3.3
4	2.5
5	3.3
6	2.1
7	5.9
8	3.3
9	3.3
10	0
11	0
12	2.6
13	1.6
14	1.6
15	3.3
16	3.3
17	3.3
18	3.3
19	0
20	0
21	NC
22	0
23	3.3
24	0
25	0
26	0
27	3.3
28	NC
29	3.3
30	0
31	0
32	3.3
33	NC
34	3.3
35	3.3
36	0
37	0
38	3.3
39	NC
40	3.3
41	0.9
42	0.9
43	0
44	0
45	NC
46	0
47	3.4
48	0
49	0
50	NC
51	0
52	0
53	0
54	0
55	0
56	0
57	0
58	0
59	2.7
60	2.7
61	2.7
62	3.4
63	3.4
64	NC
65	0
66	NC
67	0
68	0
69	*
70	*
71	*
72	*
73	*
74	*
75	*
76	*
77	*
78	3.4
79	*
80	*
81	*
82	*
83	*
84	*
85	*
86	*
87	0
88	3.4
89	0
90	0
91	0
92	0
93	0
94	NC
95	NC
96	NC
97	NC
98	NC
99	3.4
100	NC
101	NC
102	NC
103	NC
104	NC
105	NC
106	0
107	3.4
108	NC
109	NC
110	NC
111	NC
112	NC
113	0
114	3.4
115	NC
116	NC
117	NC

PIN NO.	VOLTAGE(V)
118	0
119	3.4
120	NC
121	NC
122	NC
123	NC
124	NC
125	NC
126	NC
127	NC
128	NC
129	0
130	3.4
131	3.4
132	NC
133	NC
134	0
135	3.3
136	3.3
137	0
138	NC
139	NC
140	0
141	3.3
142	NC
143	NC
144	NC
145	NC
146	NC
147	NC
148	NC
149	NC
150	NC
151	NC
152	0
153	3.3
154	NC
155	3.3
156	0
157	0.5
158	3.3
159	2.4
160	0
161	3.3
162	0
163	0.5
164	3.3
165	2.4
166	0
167	3.3
168	0.5
169	0.3
170	3.3
171	2.4
172	0.5
173	3.3
174	0
175	0
176	NC
IC3002	
1	5.1
2	0
3	0
4	5.1
5	3.2
Q3001	
E	5.8
C	9
B	6.4
Q3002	
E	4.3
C	9
B	4.9
Q3003	
E	4.9
C	9
B	4.2
Q3004	
E	5.8
C	9
B	6.4
Q3005	
E	4.2
C	9
B	4.8
Q3006	
E	4.9
C	0
B	4.2
Q3007	
E	9
C	0
B	0.2
Q3501	
E	5.2
C	0
B	4.5
Q3502	
E	4.6
C	9
B	5.2
Q3505	
E	5.2
C	0
B	4.6
Q3506	
E	4.6
C	9
B	5.2
Q3509	
E	5.2
C	0
B	4.6
Q3510	
E	4.6
C	9
B	5.2

* = DIGITAL SIGNAL

MAIN PWB ASS'Y (6/12) [2D Y/C SEP PART]
SSB-1076A-M2

IC3001-7: 2 Vp-p (H)

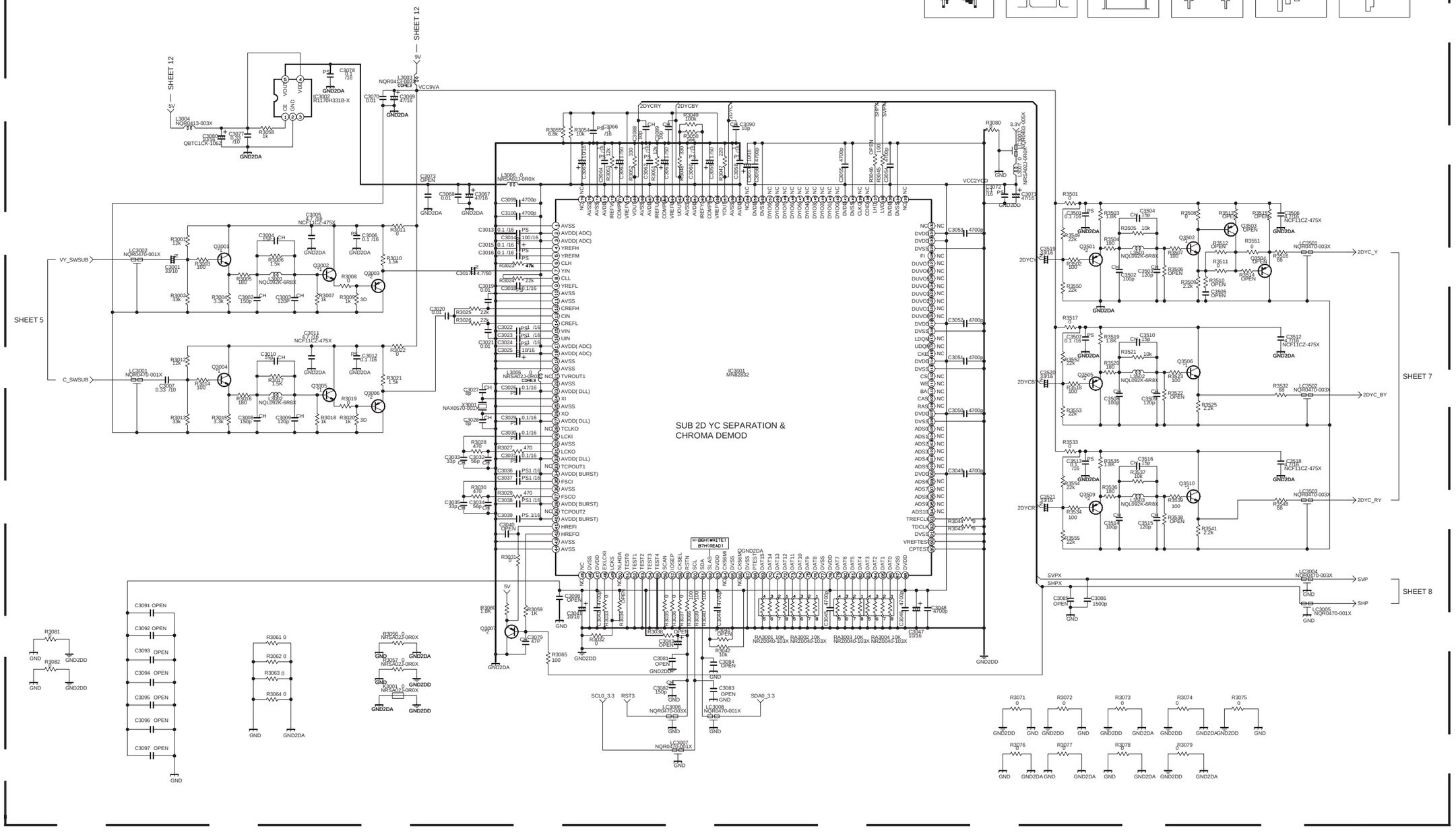
IC3001- 42: 1.8 Vp-p (H)

IC3001- 136: 3.5 Vp-p (V)

IC3001- 157: 1 Vp-p (H)

IC3001- 163: 0.5 Vp-p (H)

IC3001- 169: 0.7 Vp-p (H)



MAIN PWB ASS'Y (7/12) [COMPONENT SW PART]
SSB-1076A-M2

IC1301- 35: 1.2 Vp-p (H)

IC1301- 36: 1 Vp-p (H)

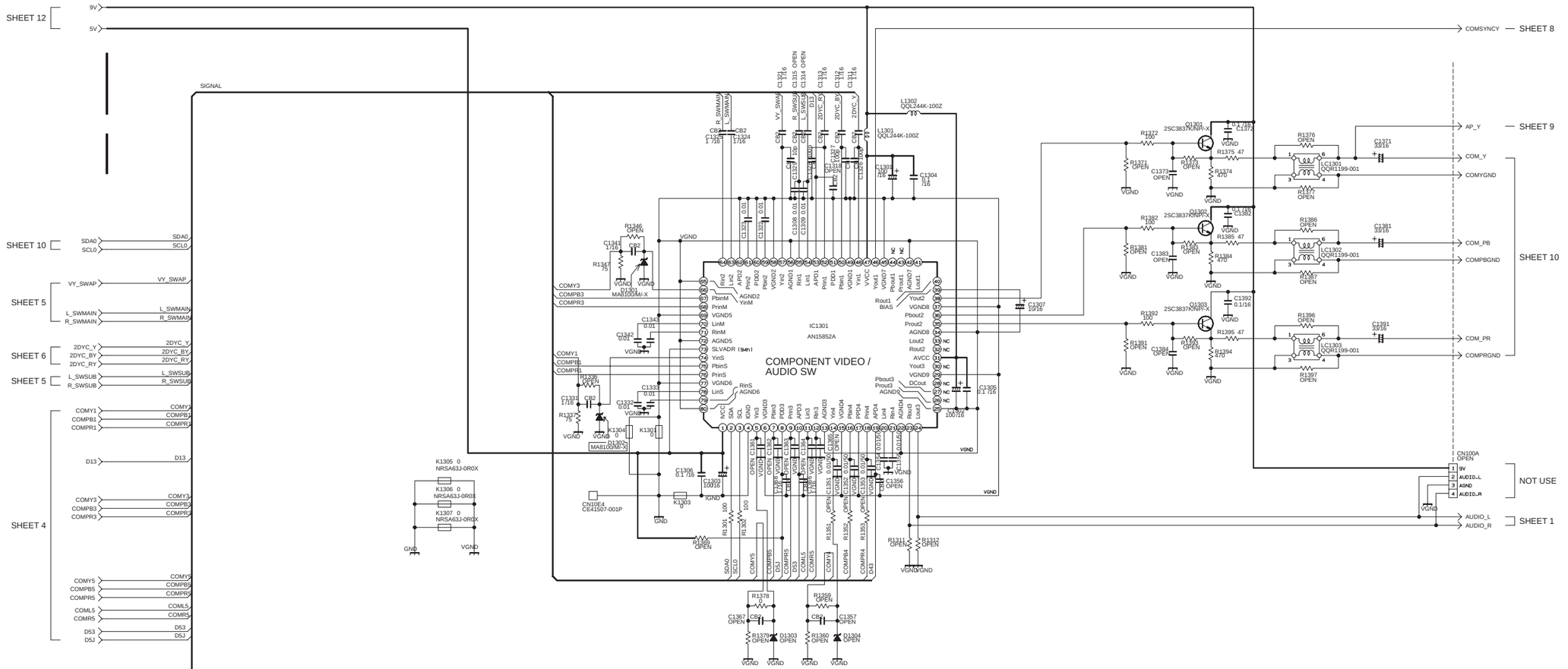
IC1301- 38,46: 2 Vp-p (H)

IC1301- 48: 1 Vp-p (H)

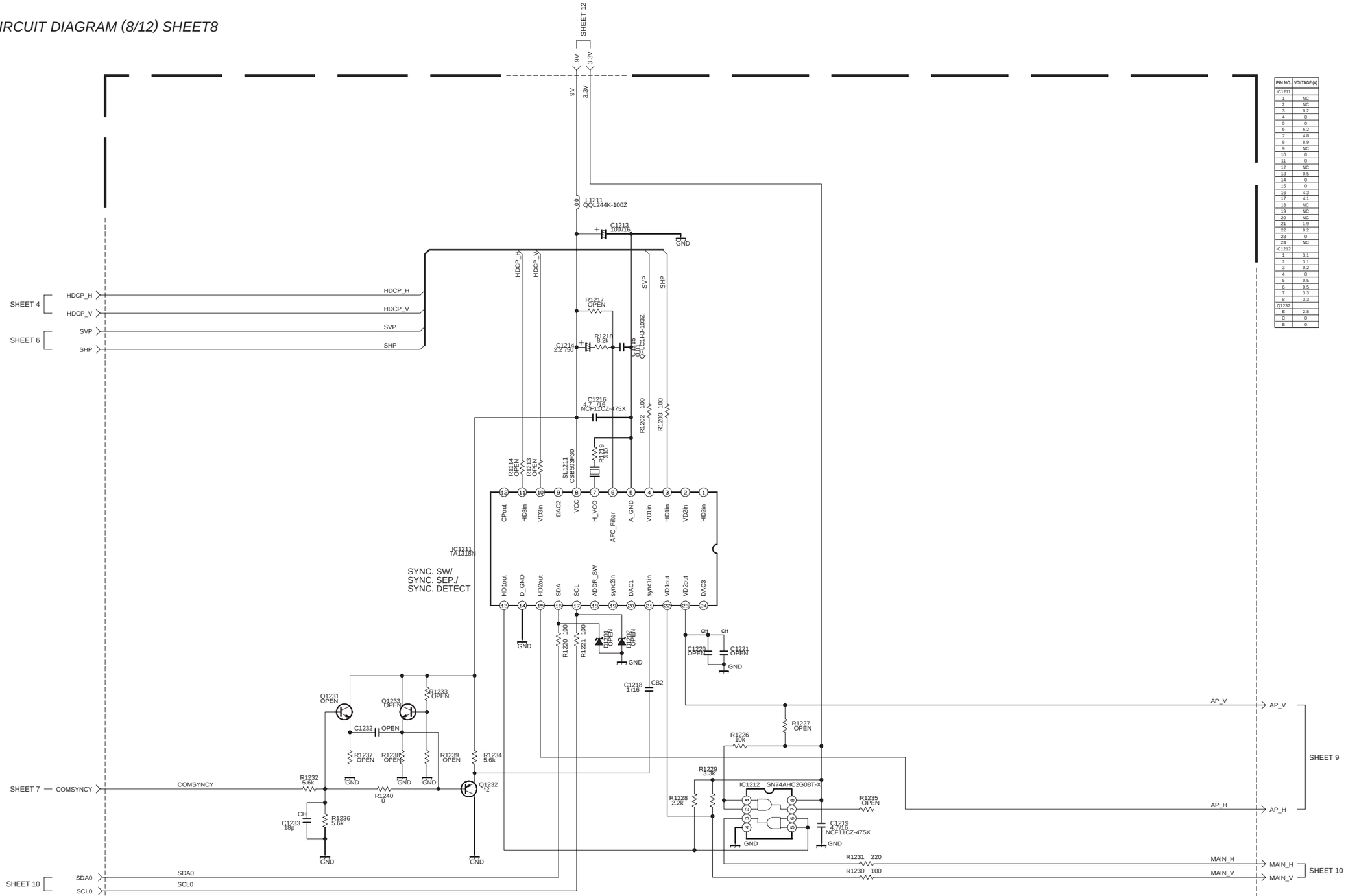
IC1301- 50: 0.5 Vp-p (H)

IC1301- 52: 0.5 Vp-p (H)

IC1301- 57: 2 Vp-p (H)

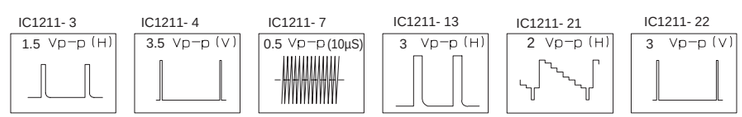


PIN NO.	VOLTAGE (V)
IC1301	
1	4.9
2	3.8
3	0
4	0
5	0
6	0
7	0
8	0
9	4.5
10	4.5
11	0
12	4.3
13	4.3
14	4.5
15	0
16	0
17	0
18	0
19	0
20	4.3
21	4.3
22	0
23	4.4
24	4.4
25	0
26	NC
27	NC
28	NC
29	0
30	NC
31	8.8
32	NC
33	NC
34	0
35	4.2
36	4.2
37	0
38	4.3
39	4.3
40	NC
41	NC
42	0
43	NC
44	NC
45	0
46	0
47	8.8
48	4.5
49	0
50	4.5
51	0
52	4.5
53	0
54	4.3
55	4.3
56	0
57	4.3
58	0
59	4.3
60	0
61	4.5
62	0
63	4.3
64	4.3
65	0
66	4.5
67	4.5
68	4.5
69	0
70	4.3
71	4.3
72	0
73	5
74	4.5
75	4.5
76	4.5
77	0
78	4.3
79	4.3
80	0
Q1301	
E	3.7
C	9
B	4.4
Q1302	
E	3.6
C	9
B	4.4
Q1303	
E	3.6
C	9
B	4.4



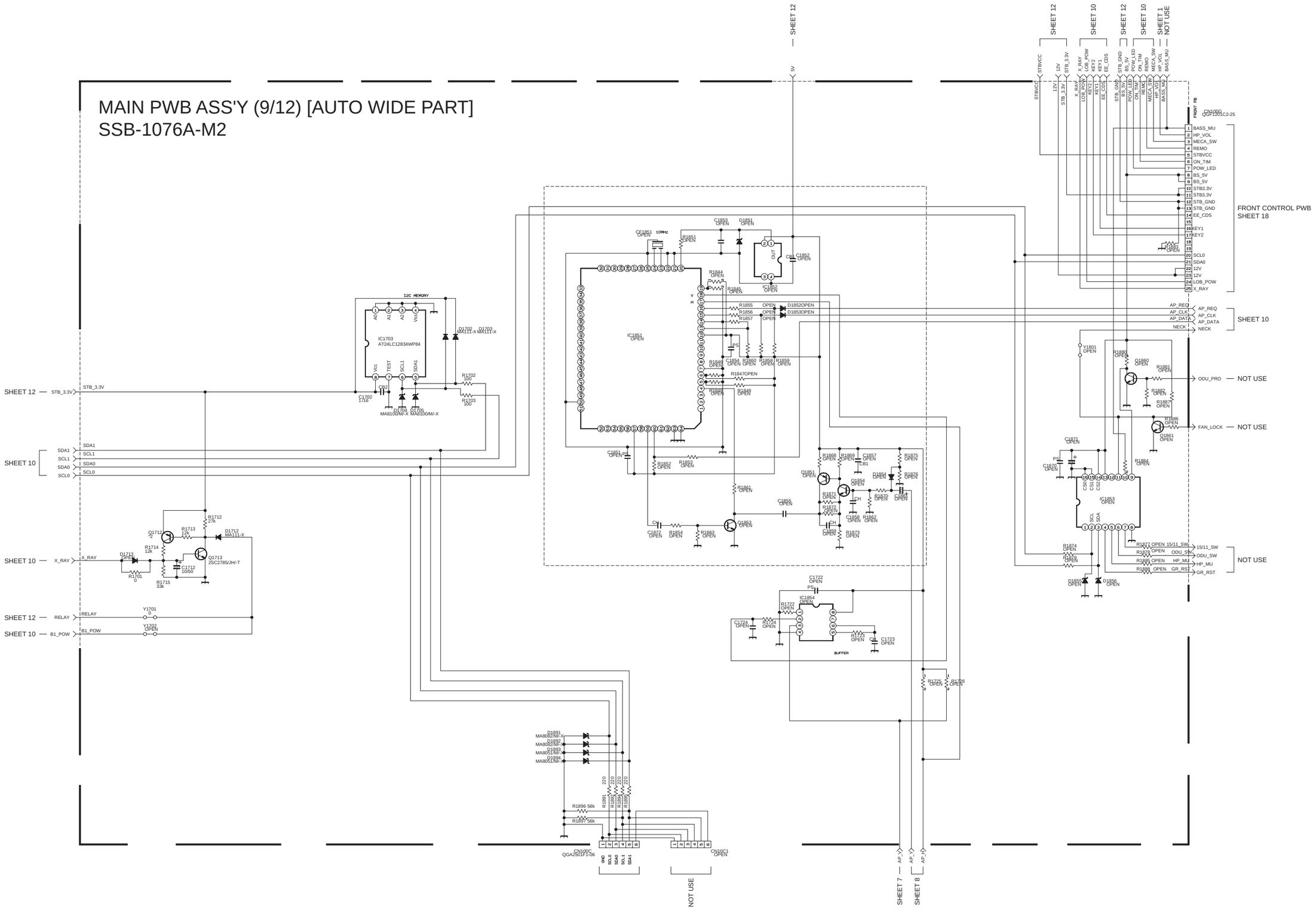
PIN NO.	VOLTAGE (V)
IC1211	
1	NC
2	NC
3	0.2
4	0
5	0
6	6.2
7	4.8
8	8.9
9	NC
10	0
11	0
12	NC
13	0.5
14	0
15	0
16	4.3
17	4.1
18	NC
19	NC
20	NC
21	1.9
22	0.2
23	0
24	NC
IC1212	
1	3.1
2	3.1
3	0.2
4	0
5	0.5
6	0.5
7	3.3
8	3.3
Q1232	
E	2.8
C	0
B	0

MAIN PWB ASS'Y (8/12) [SYNC SEP PART]
SSB-1076A-M2



MAIN PWB ASS'Y (9/12) [AUTO WIDE PART]
SSB-1076A-M2

PIN NO.	VOLTAGE (V)
IC1703	
1	0
2	0
3	0
4	0
5	2.6
6	2.6
7	0
8	3.1
IC1713	
C	2.7
E	0
B	0.1



MAIN PWB ASS'Y (10/12) [DIST BASE PART]
SSB-1076A-M2

CN1GN1 OPEN — CN1GN2 OPEN — GND — GND

CN1004 - 75: 2 Vp-p (H)
CN1004- 80: 3.2 Vp-p (H)
CN1004 - 81: 3.2 Vp-p (V)
CN1004- 98: 3 Vp-p (V)
CN1004 - 99: 3.2 Vp-p (H)
CN1004 - 107: 2 Vp-p (H)
CN1004 - 109: 2 Vp-p (H)
CN1004 - 111: 2.5 Vp-p (H)

MI-COM & DIST MODULE

CN1004 QGC2508C1-C0

1	BS8V	120	BS9V
2	BS8V	119	BS9V
3	BSDGND	118	BSDGND
4	BSDGND	117	BSDGND
5	BSDGND	116	BS_ODU
6	BS5V	115	2.5V
7	BT30V	114	2.5V
8	GND	113	GND
9	GND	112	A5V
10	AUDIO_L	111	COM_PR
11	AUDIO_R	110	COM_PR_GND
12	GND	109	COM_PB
13	GND	108	COM_PB_GND
14	AC_IN	107	COM_Y(MAIN_CCD)
15	STB3.3V	106	COM_Y_GND
16	STBGND	105	BS_GEMV
17	STB7V	104	GND
18	TU_POW	103	AP_CLK
19	GND	102	AP_DAT
20	21V	101	AP_REQ
21	GND	100	GND
22	LB_PRO	99	MAIN_H
23	LOB_POW	98	MAIN_V
24	BS_POW	97	MAIN_POW
25	3.3V	96	3.3V
26	GND	95	GND
27	9V	94	9V
28	GND	93	GND
29	GND	92	GND
30	GND	91	GND
31	5V	90	5V
32	GND	89	GND
33	A3.3V	88	A3.3V
34	GND	87	GND
35	EE_CDS	86	B1_POW
36	REMO	85	OSD_VD
37	KEY2	84	NECK
38	KEY1	83	DEF_VP
39	MECA_SW	82	EHT
40	GND	81	V_SYNC
41	A_MU	80	H_SYNC
42	SDA2	79	DEF_HP
43	SCL2	78	X_RAY
44	NC	77	ABL
45	AFT2	76	POW_LED
46	C/N(AFT1)	75	VY_SWMAIN
47	GND	74	VY_SWMAIN_GND
48	HDMI_IR	73	C_SWMAIN
49	SDA1	72	GND
50	SCL1	71	SCL0
51	SDA0	70	HDCP_H
52	HDCP_V	69	GND
53	GND	68	BSD_L
54	RST3	67	BSD_Y_GND
55	ON_TIM	66	BSD_Y
56	GND	65	GND
57	BSD_IR	64	BSD_R
58	BSD_IR_GND	63	GND
59	COMPU	62	BSD_C
60	GND	61	M_MU

CN1004 pin 60 GND → GND; pins 1 GND, 2 R, 3 GND, 4 G, 5 GND, 6 B, 7 VM(GND), 8 VM, 9 GND, 10 GND → SHEET 14 CRT SOCKET PWB

C1408 OPEN; C1412 100/16; C1407 OPEN; C1420 OPEN; R1404 OPEN; R1403 OPEN; C1423 47/50; R1409 0

C1442 OPEN; R1421 OPEN; R1423 OPEN; D1403 OPEN; C1441 OPEN; R1422 OPEN; D1402 OPEN; D1401 OPEN; C1443 OPEN; Q1401 OPEN

CN1003 QGB1506L1-16

SCL0	16	SCL0	
	15	GND	
SDA0	14	SDA0	
	13	GND	
B1_POW	12	B1_POW	
OSD_VD	11	OSD_VD	
NECK	10	NECK	
DEF_VP	9	DEF_VP	
EHT	8	EHT(DC)	
V_SYNC	7	V_SYNC	
H_SYNC	6	H_SYNC	
DEF_HP	5	DEF_HP	
	4	NC	
	3	NC	
X_RAY	2	X_RAY	
ABL	1	ABL	

R1401 0; R1402 0; GND; GND

C1422 OPEN; C1410 0.1 /16; C1409 10 /50; C1421 10000 /6.3

L1402 QQL26AK-100Z; C1417 0.01; C1418 47/25; C1404 1000/10; C1406 1000/10; C1403 1000 /10

L1401 QQL244K-100Z; C1415 0.01; C1416 47 /25; C1411 0.1 /16; C1405 1000/6.3

C1430 0.01; C1431 0.01; R1411 OPEN; C1432 0.01; C1433 0.01; R1407 0

12V	SHEET 12	
NECK	SHEET 9	
POWER & DEF PWB	SHEET 15	
SDA0		
B1_POW	B1_POW	SHEET 9
X_RAY	X_RAY	
BS_9V	BS_9V	SHEET 12
15/11V	15/11V	
2.5V	2.5V	
A5V	A5V	
COM_PR	COM_PR	SHEET 7
COMPRGND	COMPRGND	
COM_PB	COM_PB	
COMPBGND	COMPBGND	
COM_Y	COM_Y	
COMYGND	COMYGND	
BS_GEMV	BS_GEMV	SHEET 1
AP_CLK	AP_CLK	SHEET 9
AP_DATA	AP_DATA	
AP_REQ	AP_REQ	
MAIN_H	MAIN_H	SHEET 8
MAIN_V	MAIN_V	
RELAY	RELAY	SHEET 12
3.3V	3.3V	
9V	9V	
5V	5V	
A3.3V	A3.3V	
POW_LED	POW_LED	SHEET 9
VY_SWMAIN	VY_SWMAIN	SHEET 5
C_SWMAIN	C_SWMAIN	
SCL0	SCL0	SHEET 1, 9
HDCP_H	HDCP_H	SHEET 8
L_BSD	L_BSD	SHEET 7
Y_BSDGND	Y_BSDGND	
Y_BSD	Y_BSD	
R_BSD	R_BSD	SHEET 5
C_BSD	C_BSD	
M_MU	M_MU	NOT USE

BS_8V	BS_8V	SHEET 12
BS_5V	BS_5V	
32V	32V	
AUDIO_L	AUDIO_L	SHEET 11
AUDIO_R	AUDIO_R	
AC	AC	SHEET 12
STB_3.3V	STB_3.3V	
STB_GND	STB_GND	
TU_POW	TU_POW	
21V	21V	
LB_PRO	LB_PRO	
LOB_POW	LOB_POW	
BS_POW	BS_POW	
EE_CDS	EE_CDS	SHEET 9
REMO	REMO	
KEY2	KEY2	
KEY1	KEY1	
MECA_SW	MECA_SW	
A_MU	A_MU	SHEET 11
SDA2	SDA2	SHEET 1
SCL2	SCL2	
AFT2	AFT2	
C/N_AFT1	C/N_AFT1	
HDMI_IR	HDMI_IR	SHEET 2
SDA1	SDA1	SHEET 9
SCL1	SCL1	
SDA0	SDA0	SHEET 1, 9
HDCP_V	HDCP_V	SHEET 8
RST3	RST3	SHEET 6
ON_TIM	ON_TIM	SHEET 9
BSD_IR	BSD_IR	SHEET 3
COMPU	COMPU	

PIN NO.	VOLTAGE (V)
CN1004	
1	0
2	0
3	0
4	0
5	0
6	5.1
7	33.6
8	0
9	0
10	4.4
11	4.4
12	0
13	0
14	2.1
15	3.1
16	0
17	0
18	3.1
19	0
20	22.1
21	0
22	0
23	3.1
24	0
25	3.2
26	0
27	8.8
28	0
29	0
30	0
31	4.9
32	0
33	3.2
34	0
35	0
36	3.2
37	3.1
38	3.1
39	2.8
40	0
41	3.1
42	4.9
43	4.9
44	NC
45	3.6
46	1.3
47	0
48	2.8
49	2.6
50	2.6
51	4.4
52	0
53	0
54	3.1
55	0
56	0
57	0
58	0
59	0
60	0
61	0
62	4.3
63	0
64	0
65	0
66	3.9
67	0
68	0
69	0
70	0
71	4.3
72	0
73	4.4
74	0
75	3.7
76	3.1
77	10.7
78	0.1
79	2.6
80	0.1
81	0
82	2.6
83	0.1
84	0
85	0
86	2.8
87	0
88	3.2
89	0
90	4.9
91	0
92	0
93	0
94	6.8
95	0
96	3.2
97	3.1
98	0.2
99	0.2
100	0
101	0
102	0
103	0
104	0
105	0
106	0
107	3.1
108	0
109	3.3
110	0
111	3.3
112	4.9
113	0
114	2.5
115	2.5
116	0
117	0
118	0
119	0
120	0
Q1401	
E	0
C	0
B	0.6

MAIN PWB CIRCUIT DIAGRAM (11/12) SHEET11

MAIN PWB ASS'Y (11/12) [AUDIO PART]
SSB-1076A-M2

PIN NO.	VOLTAGE (V)
IC1641	
1	4.4
2	4.4
3	4.4
4	4.4
5	4.4
6	4.4
7	4.4
8	0
9	0
10	4.7
11	0
12	8.9
13	4.4
14	4.4
15	4.4
16	4.4
17	4.4
18	4.4
19	4.4
20	4.4
IC1661	
1	0
2	0
3	28.8
4	0
5	0
6	0
7	14.5
8	4.7
9	0
10	30
11	10.6
12	14.6
IC6001	
1	4.4
2	4.4
3	4.4
4	NC
5	4.4
6	8.8
7	0
8	0
9	0
10	NC
11	4.4
12	4.4
13	4.4
14	4.4
Q1668	
E	0
C	0
B	2.5
Q1669	
E	0
C	4.6
B	-0.4
Q1672	
E	0
C	11.6
B	0
Q1673	
E	0
C	0
B	11.6
Q6001	
E	0
C	1.3
B	0
Q6002	
E	0
C	0
B	0.6

MAIN PWB ASS'Y (12/12) [REGULATOR PART]
SSB-1076A-M2

POWER & DEF PWB SHEET 15

LINE FILTER PWB SHEET 16

CN1001 QGB1506L1-16

CN100F QJB003-041414

CN1002 QGB1506L1-16

TO DEF/POWER PB

14V	1	16	14V
AV_9V	2	15	GND
LB_PRO	3	14	9V
BS_POW	4	13	5V
DEF_POW	5	12	12V
GND	6	11	GND
GND	7	10	BT32V
GND	8	9	GND
GND	9	8	GND
BT32V	10	7	GND
GND	11	6	GND
12V	12	5	DEF_POW
5V	13	4	BS_POW
9V	14	3	LB_PRO
GND	15	2	AV_9V
14V	16	1	14V

14V	1	16	14V
RELAY	2	15	A_VCC
AU_GND	3	14	A_VCC
AU_VCC	4	13	A_GND
FAN_LOCK	5	12	A_GND
	6	11	RELAY
	7	10	FAN_LOCK
	8	9	GND
	9	8	STB12V
	10	7	GND
	11	6	GND
	12	5	GND
	13	4	21V
	14	3	21V
	15	2	21V
	16	1	21V

RELAY_VCC	1	4	STB_GND
STBGND	2	3	AC
STBVCC	3	2	BS_POW
AC	4	1	STBVCC

14V	— NOT USE	
21V	— SHEET 1	
32V	— SHEET 1, 10	
STBVCC	— SHEET 9	
LB_PRO	— SHEET 10	
STB_3.3V	— SHEET 9	
12V	— SHEET 1	
LOB_POW	— SHEET 10	
TU_9V		
A5V	— SHEET 10	
9V	— SHEET 1	
AV_9V		
BS_9V	— SHEET 10	
TU_5V	— SHEET 1	
SCL0	NOT USE	
SDA0	NOT USE	
5V	— SHEET 1, 2	
BS_5V	— SHEET 1, 10	
A3.3V	SHEET 2	
3.3V		
2.5V	— SHEET 10	
15/11_SW	— NOT USE	
ODU_PRO	— NOT USE	
15/11V	— SHEET 10	
ODU_SW	— NOT USE	
TU_POW	— SHEET 10	

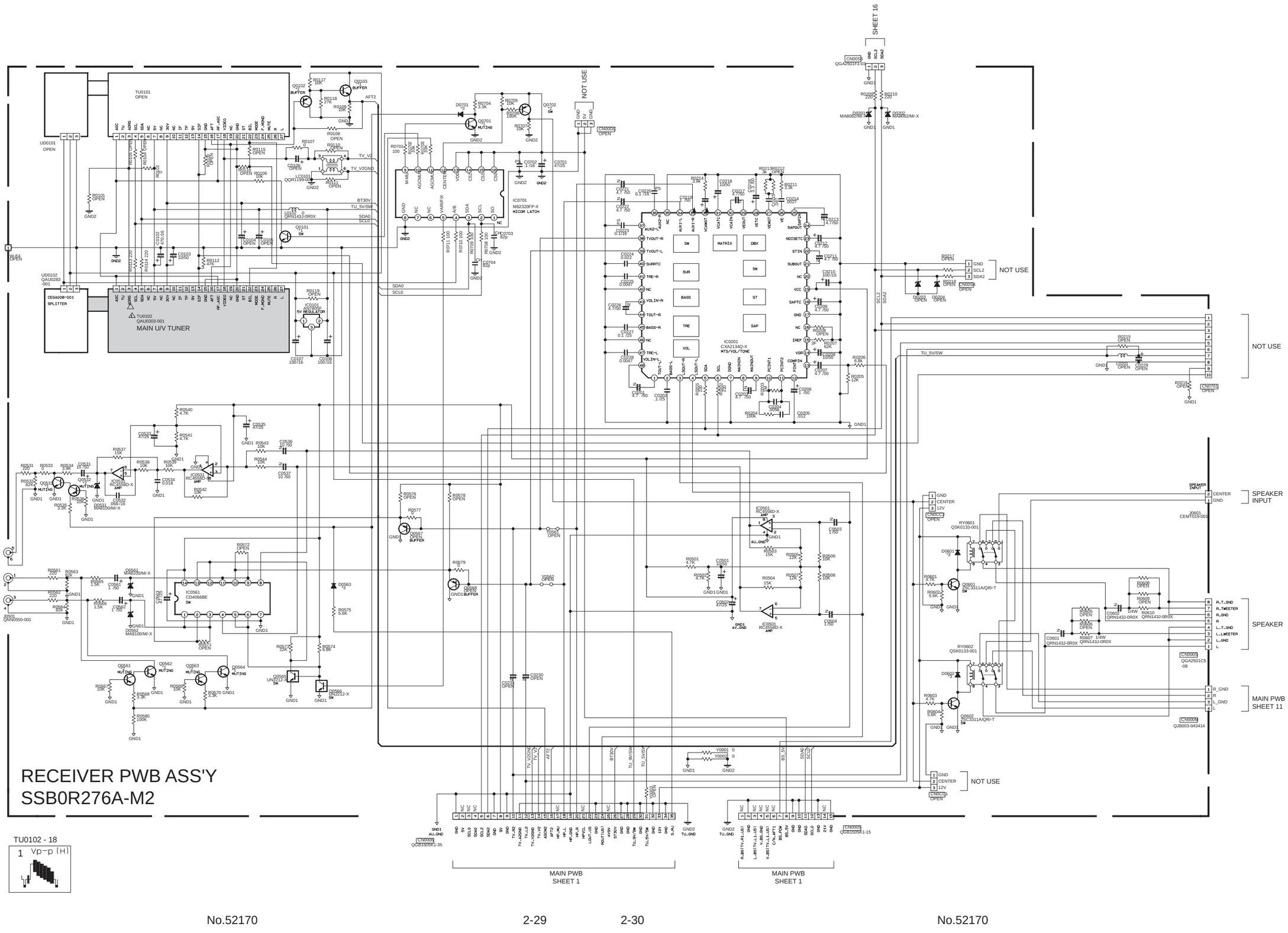
PIN NO.	VOLTAGE (V)
IC1511	
1	5
2	3.2
3	0
4	5
IC1801	
1	4.6
2	3.2
3	0
IC1941	
1	22.1
2	0.1
3	0
4	1.1
5	6.7
IC1942	
1	22.1
2	5.2
3	0
4	4.9
5	2.5
IC1943	
1	21.8
2	3.5
3	0
4	1.1
5	6.6
IC1981	
1	28.5
2	2.7
3	0
4	1.2
5	6.1
IC1991	
1	13.8
2	11.8
3	0
4	2.4
IC1993	
1	4.9
2	NC
3	0
4	NC
5	8.8
6	0
7	8.8
Q1961	
E	0
C	0
B	0.4
Q1962	
E	0
C	0
B	0.6
Q1964	
E	0
C	6.7
B	0
Q1981	
E	8.9
C	8.9
B	9.6
Q1984	
E	5.1
C	5
B	5.8

Q1811	
H	15V
L	11V

RECEIVER PWB CIRCUIT DIAGRAM SHEET13

PIN NO.	VOLTAGE (V)
IC0101	
1	8.8
2	4.9
3	0
IC0201	
1	4.1
2	4.1
3	4
4	4.1
5	4.9
6	4.9
7	0
8	4
9	3.9
10	4
11	3.9
12	4.3
13	4
14	11.2
15	1
16	0
17	0
18	3.3
19	8.8
20	NC
21	4
22	4
23	4
24	3.9
25	4
26	4
27	4
28	1.9
29	4
30	4
31	1.9
32	4
33	4
34	4
35	0
36	4
37	4
38	4
39	4.1
40	4
41	4
42	0
43	4
44	4
45	4.1
46	0
47	4
48	4
IC0501	
1	4.4
2	4.3
3	4.4
4	0
5	4.3
6	4.4
7	4.4
8	8.8
IC0531	
1	4.4
2	0
3	4.4
4	0
5	4.4
6	4.3
7	4.4
8	8.8
IC0561	
1	4
2	4
3	4
4	4.4
5	0
6	0
7	0
8	0
9	4
10	4
11	4
12	8.7
13	8.7
14	8.8
IC0701	
1	NC
2	3.8
3	3.9
4	0
5	5
6	NC
7	NC

PIN NO.	VOLTAGE (V)
8	0
9	1.9
10	0
11	0
12	5.1
13	5.1
14	5.1
15	5.1
16	5.1
TU0102	
1	1.4
2	NC
3	4.9
4	3.8
5	3.8
6	NC
7	4.9
8	NC
9	33.5
10	NC
11	NC
12	NC
13	NC
14	2.7
15	0
16	3.2
17	1.4
18	2
19	NC
20	0
21	NC
22	0
23	NC
24	NC
25	NC
26	NC
27	NC
Q0102	
E	4.2
C	0
B	3.6
Q0103	
E	3.5
C	8.9
B	4.2
Q0701	
E	0
C	0
B	0.7
Q0702	
E	5.1
C	0
B	5
Q0531	
E	0
C	0
B	0.9
Q0532	
E	0
C	0.9
B	0
Q0561	
E	0
C	0.9
B	0
Q0562	
E	0
C	0
B	0
Q0563	
E	0
C	1
B	0.1
Q0564	
E	0
C	0
B	1
Q0565	
E	0
C	8.7
B	0
Q0566	
E	0
C	0
B	0
Q0601	
E	0
C	11.8
B	0
Q0602	
E	0
C	11.8
B	0



TP-R 130 Vp-p (H)

TP-G 100 Vp-p (H)

TP-B 100 Vp-p (H)

VM

CRT SOCKET PWB ASS'Y
SSB-3076A-M2

△ V01
W86ERF063X175
PICTURE TUBE

POW/DEF PWB
CN300J
QJB003-064011
POWER & DEF PWB SHEET 15

DET_PWB
CN300E
WJK0164-001A
MAIN PWB SHEET 10

POW/DEF_PWB
CN300A
QJB003-044024
POWER & DEF PWB SHEET 15

VM_OUT
CN90VM
WJK0187-001A
VM COIL

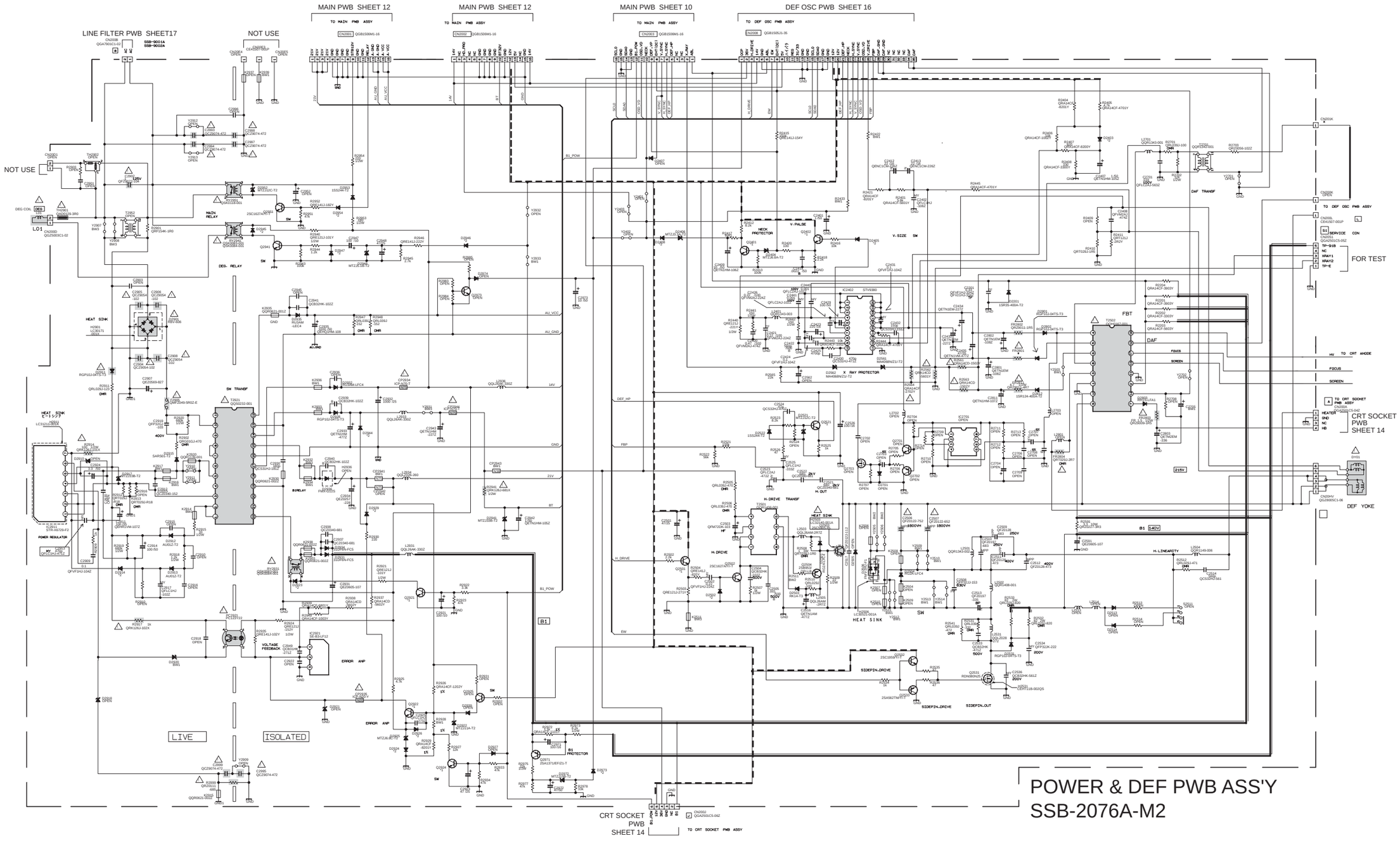
CN30SC
QGZ0017C1-01Z

CN30S4
OPEN

PIN NO.	VOLTAGE (V)
IC3101	
1	2.6
2	3.3
3	3.9
4	4.6
5	2.4
6	11.5
7	0.2
8	0
9	NC
10	214
11	NC
12	163.3
13	162.2
IC3201	
1	2.6
2	3.3
3	3.9
4	4.6
5	2.4
6	11.5
7	0.2
8	0
9	NC
10	214
11	NC
12	164.3
13	163.3
IC3301	
1	2.5
2	3.2
3	3.9
4	4.6
5	2.4
6	11.5
7	0.2
8	0
9	NC
10	214
11	NC
12	165
13	164
Q3701	
E	3.4
C	36.4
B	4
Q3702	
E	37.1
C	17.2
B	36.4
Q3703	
E	16.9
C	37.1
B	17.2
Q3704	
E	16.9
C	0
B	16.5
Q3705	
S	183.4
D	85.2
G	179.9
Q3706	
S	0
D	81.7
G	1.2

POWER & DEF PWB CIRCUIT DIAGRAM SHEET15

CN2008 - 6	Q2502 - B	Q2502 - C	Q2503 - B	Q2503 - C	Q2531- G	Q2531- D	T2502 - 3	T2502 - 4	T2502 - 5	T2502 - 6	T2502 - 7	T2502 - 8	T2502 - 10	T2701 - 11
3 Vp-p (V)	1.6 Vp-p (H)	60 Vp-p (H)	3 Vp-p (H)	1100Vp-p (H)	11 Vp-p (H)	150 Vp-p (H)	23 Vp-p (H)	85 Vp-p (H)	90 Vp-p (H)	45 Vp-p (H)	190 Vp-p (H)	350 Vp-p (H)	1100Vp-p (H)	800 Vp-p (V)



PIN NO.	VOLTAGE (V)
IC2402	
1	-13.1
2	-13.1
3	-13.1
4	0.3
5	13.3
6	-12.3
7	10
8	-2.6
9	0
10	-10.2
11	0
12	1.2
13	1.2
14	0
15	12.9
16	12.9
17	-13.1
18	-13.1
19	-13.1
20	-13.1
IC2911	
1	148.3
2	0.1
3	0.1
4	21
5	0.1
6	1.1
7	0.5
IC2921	
1	8.1
2	12.1
3	0
PC2921	
1	13
2	11.9
3	3
4	20.4
Q2401	
E	0
C	1.2
B	0
Q2402	
E	0.2
C	11.8
B	-1
Q2501	
E	2.9
C	11.8
B	2.5
Q2502	
E	0
C	26.5
B	0.1
Q2503	
E	0
C	278
B	-0.6
Q2504	
E	-0.5
C	-3.2
B	-0.1
Q2532	
E	2.4
C	11.8
B	2.3
Q2533	
E	2.3
C	0
B	2.3
Q2941	
E	0
C	13.9
B	0
Q2921	
E	0
C	0
B	0.6
Q2922	
E	7.3
C	11.9
B	7.8
Q2924	
E	0
C	0
B	0.4

POWER & DEF PWB ASS'Y
SSB-2076A-M2

DEF OSC PWB ASS'Y
SSB0H076A-M2

IC0101-1
2 Vp-p (H)

IC0101- 16
5 Vp-p (H)

IC0101 - 18
3.5 Vp-p (H)

IC0101- 24
4 Vp-p (V)

IC0101- 30
2 Vp-p (V)

IC0161-17
2.8 Vp-p (V)

IC0161- 18
1.4 Vp-p (H)

IC0161 - 25
3.5 Vp-p (H)

IC0161 - 26
4 Vp-p (V)

IC0162 - 5
4 Vp-p (H)

IC0162 - 6
0.6 Vp-p (H)

IC0162 - 7
11 Vp-p (H)

Q0168 - B
10 Vp-p (H)

Q0753 - C
100 Vp-p (V)

NOT USE

POWER & DEF PWB
SHEET 15

CN00S4
QGA2501F1-03

CN0008
QGB1505K1-35

IC0101
LA7860M-X

IC0102
BA12FP-X

IC0161
AN5441SA-W
DISTORTION CORRECT

IC0162
BA10393F-XE

IC0163
AN7805F

IC0212
CXA1875AM-X

L0101
QQL244K-470Z

L0105
QQL01BK-101Z

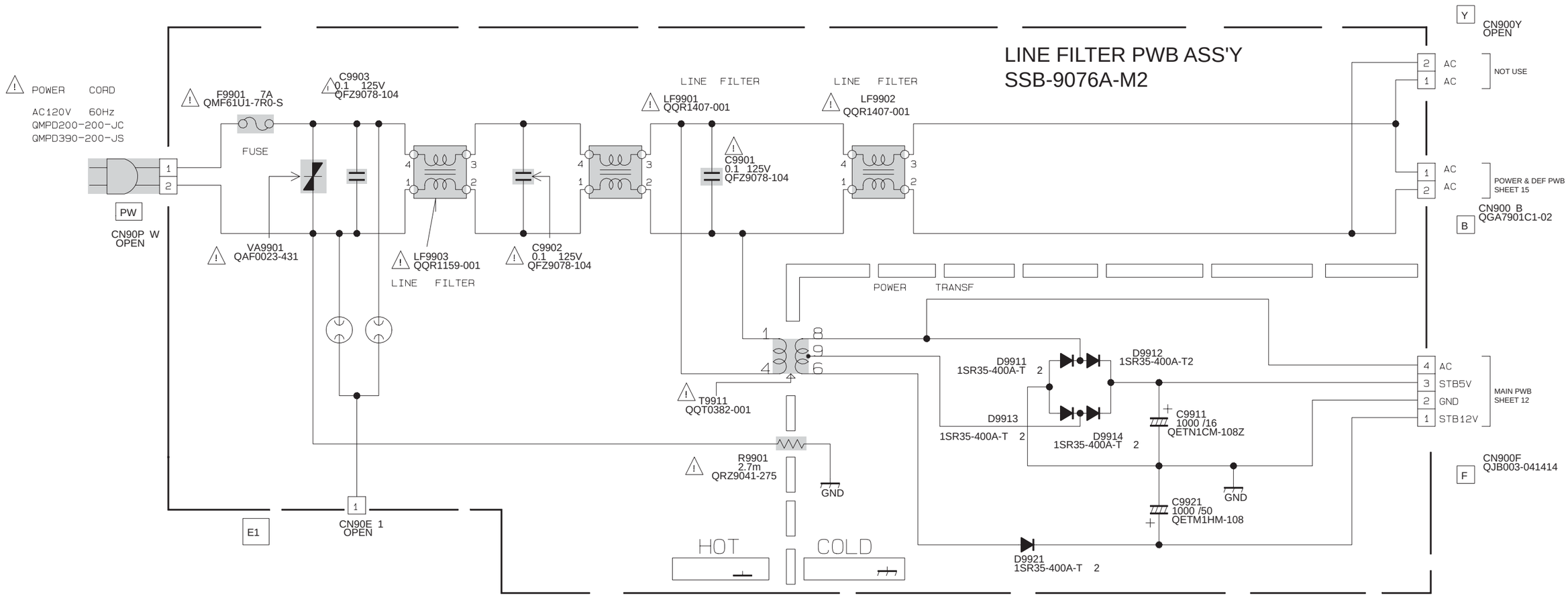
L0104
NQL092K-100X

L0103
NQL092K-100X

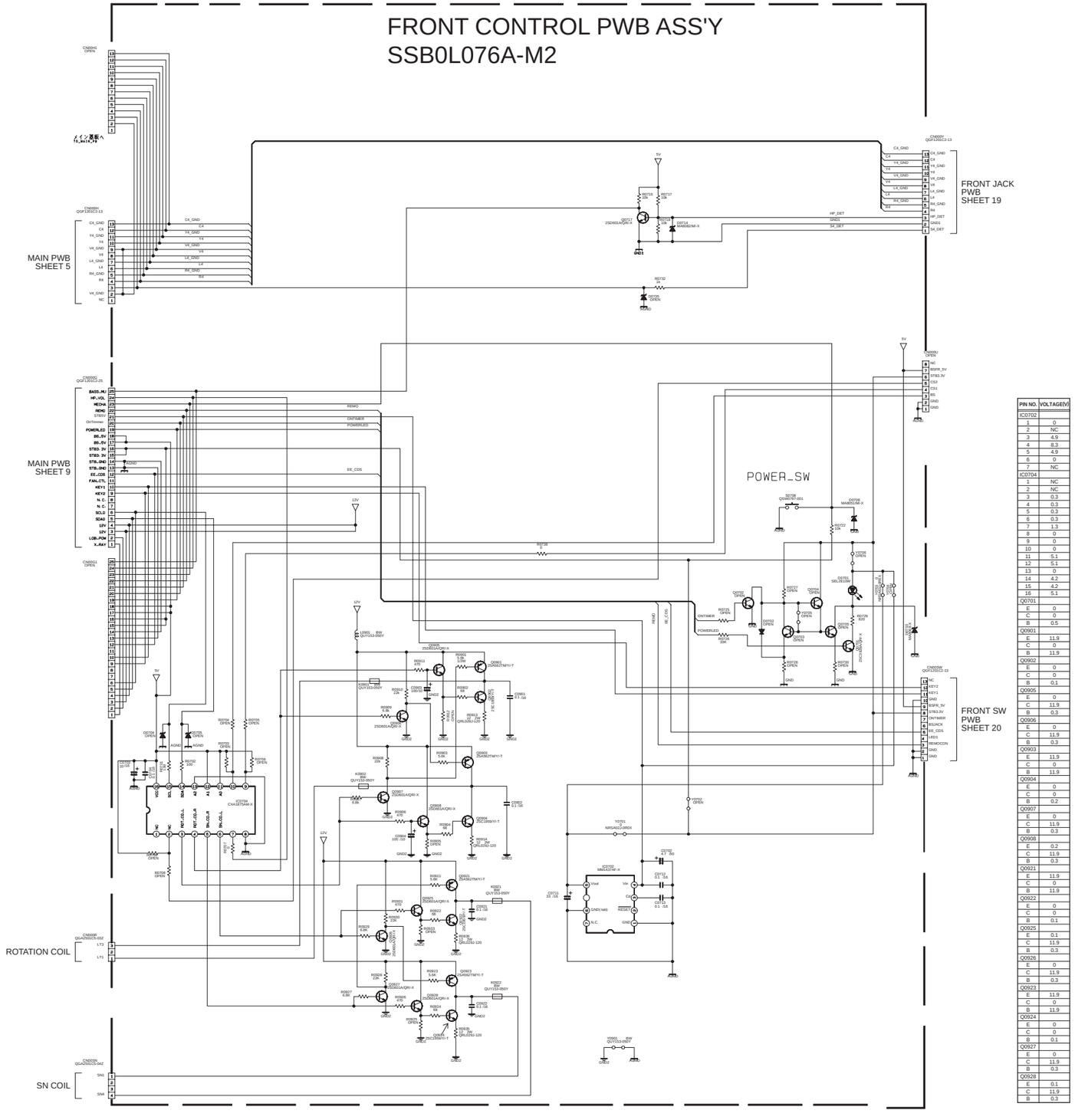
CN000L
QUB572-18PPFX
POWER & DEF PWB

PIN NO.	VOLTAGE (V)
IC0101	
1	4.6
2	0
3	0.5
4	7.3
5	0
6	8.1
7	5.3
8	2
9	2.9
10	6.4
11	0
12	0
13	8.2
14	9
15	8.5
16	2.5
17	NC
18	0.3
19	NC
20	6.9
21	11.7
22	5.9
23	0
24	0
25	0
26	0
27	1.7
28	6
29	5.5
30	5.8
IC0102	
1	13.9
2	0
3	11.9
IC0161	
1	3.8
2	4.4
3	0
4	5
5	9
6	NC
7	5
8	5
9	0
10	0
11	0
12	NC
13	0
14	0
15	11.7
16	4.8
17	4.8
18	5.2
19	0.6
20	2.9
21	8
22	2.5
23	1.2
24	6.3
25	11.7
26	3.4
27	0
28	0
IC0162	
1	1.3
2	2.3
3	2
4	0
5	1.4
6	2.5
7	2.3
8	11.7
IC0163	
1	11.7
2	4.8
3	0
IC0212	
1	0.1
2	0
3	1.4
4	2.3
5	0.3
6	NC
7	0.3
8	0
9	NC
10	NC
11	0
12	0
13	5
14	4.4
15	4.2
16	5
Q0101	
E	0
C	11.7
B	0
Q0102	
E	0.1
C	11.7
B	0.2
Q0131	
E	0
C	11.7
B	0
Q0132	
E	0
C	4.1
B	0
Q0162	
E	0
C	11.8
B	5.2
Q0167	
E	2
C	8
B	2.6
Q0168	
E	2.3
C	11.7
B	2.5
Q0751	
E	4.1
C	34.7
B	4.7
Q0752	
E	34
C	37.1
B	34.6
Q0753	
E	3.2
C	3.2
B	3.8

LINE FILTER PWB CIRCUIT DIAGRAM SHEET17

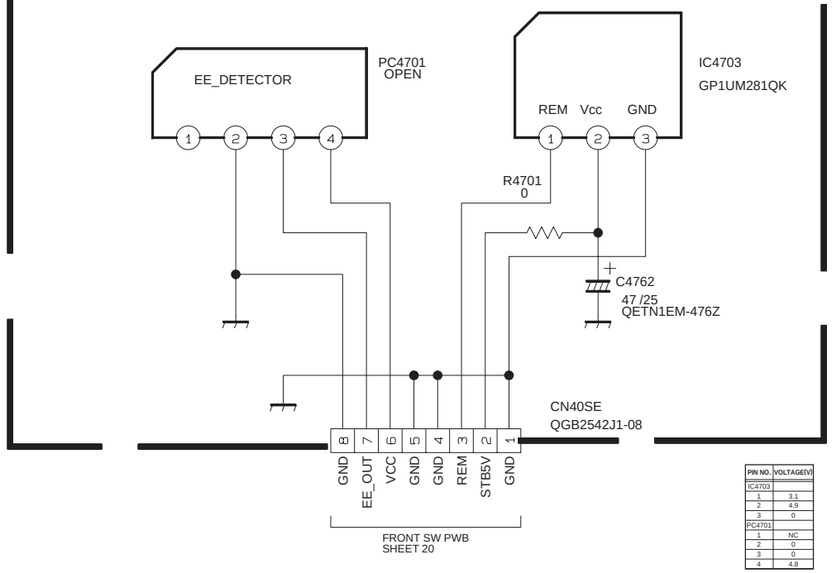


FRONT CONTROL PWB ASS'Y
SSB0L076A-M2



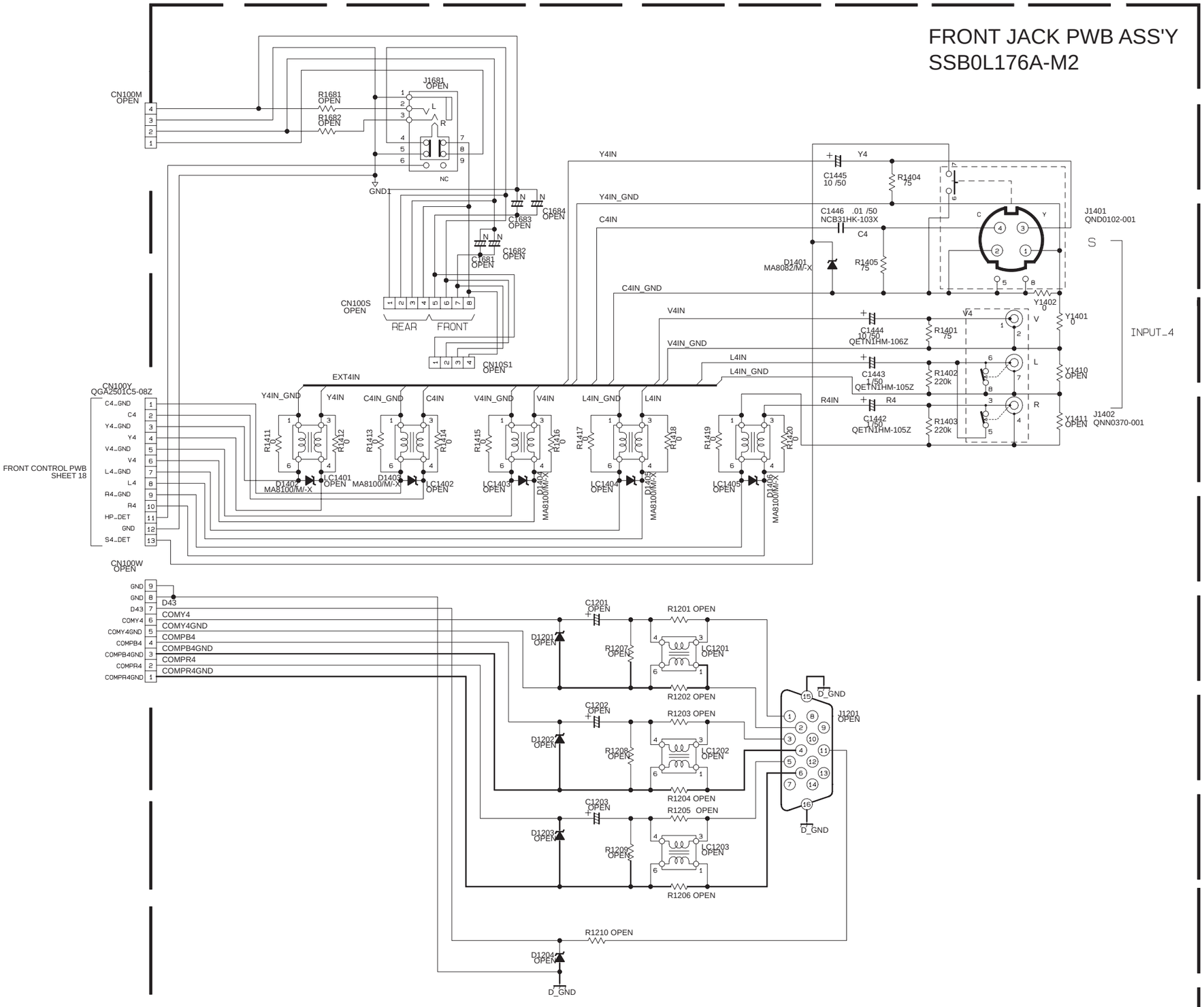
PIN NO.	VOLTAGE(V)
IC0702	
1	0
2	NC
3	4.9
4	8.3
5	4.9
6	0
7	NC
IC0704	
1	NC
2	NC
3	0.3
4	0.3
5	0.3
6	0.3
7	1.3
8	0
9	0
10	0
11	5.1
12	5.1
13	0
14	4.2
15	4.2
16	5.1
Q0701	
E	0
C	0
B	0.5
Q0901	
E	11.9
C	0
B	11.9
Q0902	
E	0
C	0
B	0.1
Q0905	
E	0
C	11.9
B	0.3
Q0906	
E	0
C	11.9
B	0.3
Q0903	
E	11.9
C	0
B	11.9
Q0904	
E	0
C	0
B	0.2
Q0907	
E	0
C	11.9
B	0.3
Q0908	
E	0.2
C	11.9
B	0.3
Q0921	
E	11.9
C	0
B	11.9
Q0922	
E	0
C	0
B	0.1
Q0925	
E	0.1
C	11.9
B	0.3
Q0926	
E	0
C	11.9
B	0.3
Q0923	
E	11.9
C	0
B	11.9
Q0924	
E	0
C	0
B	0.1
Q0927	
E	0
C	11.9
B	0.3
Q0928	
E	0.1
C	11.9
B	0.3

FRONT SENSOR PWB ASS'Y
SSB0L476A-M2

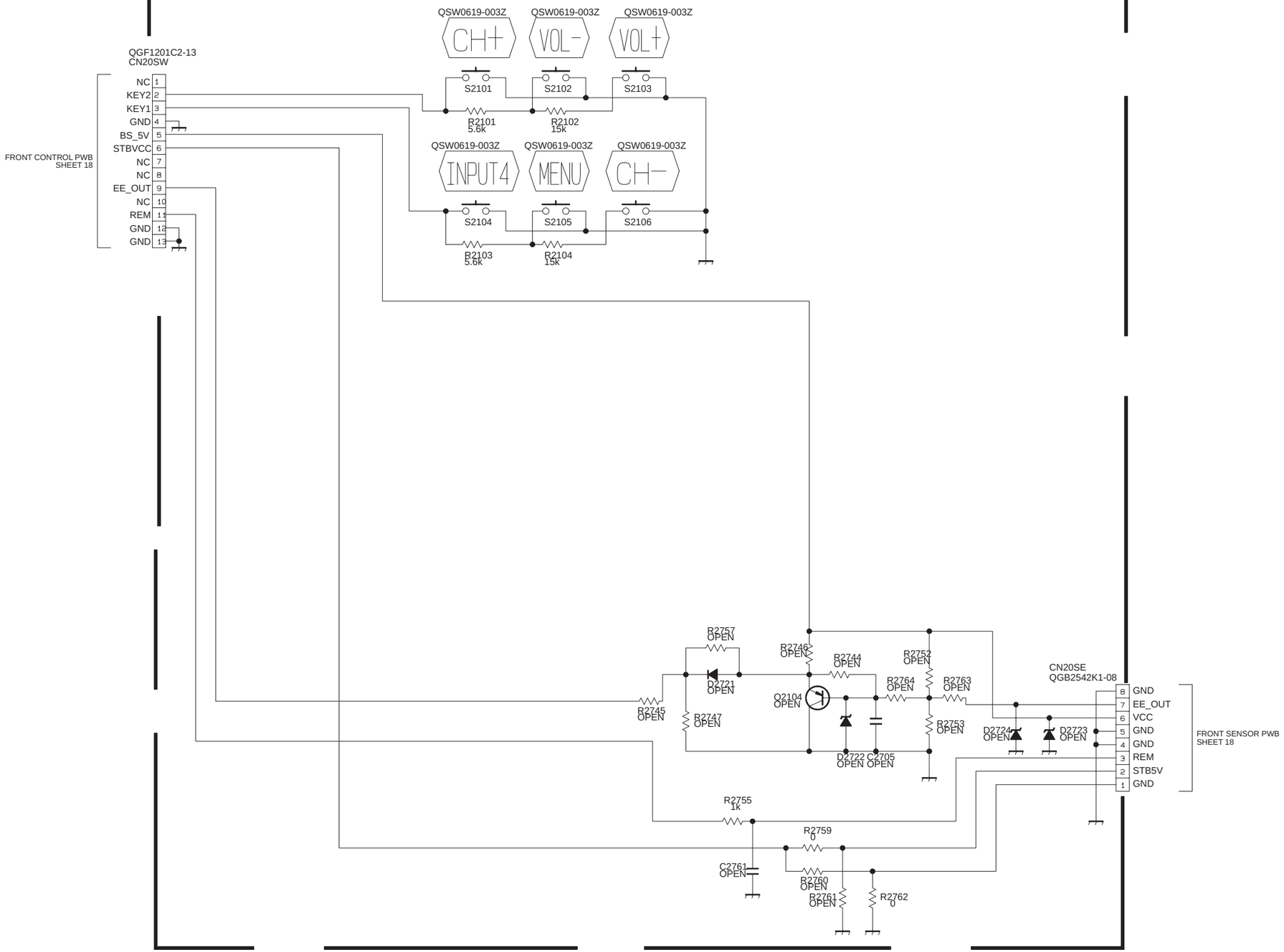


PIN NO.	VOLTAGE(V)
IC4703	
1	3.1
2	4.9
3	0
PC4701	
1	NC
2	0
3	0
4	4.8

FRONT JACK PWB ASS'Y
SSB0L176A-M2

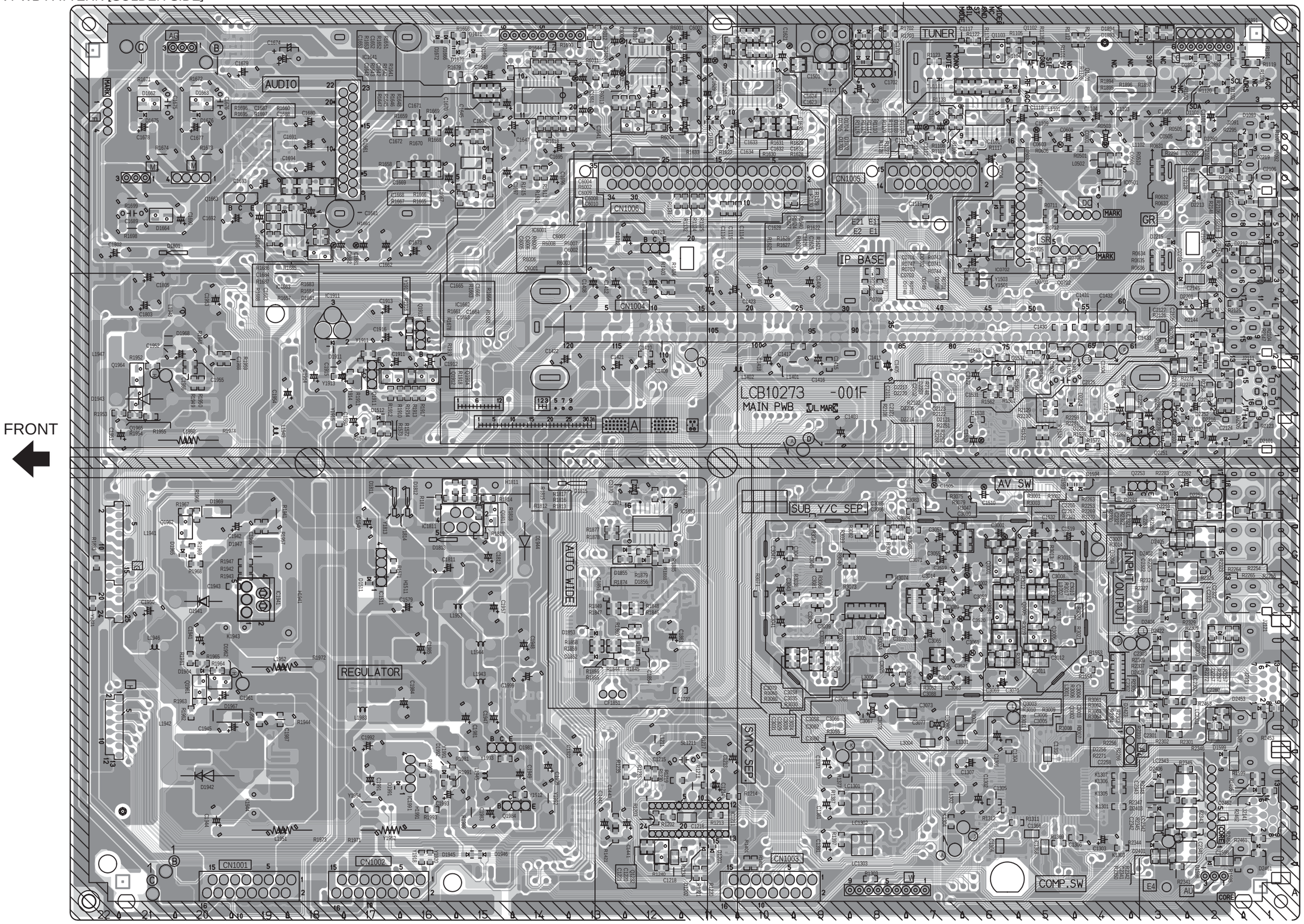


FRONT SW PWB ASS'Y
SSB0L276A-M2

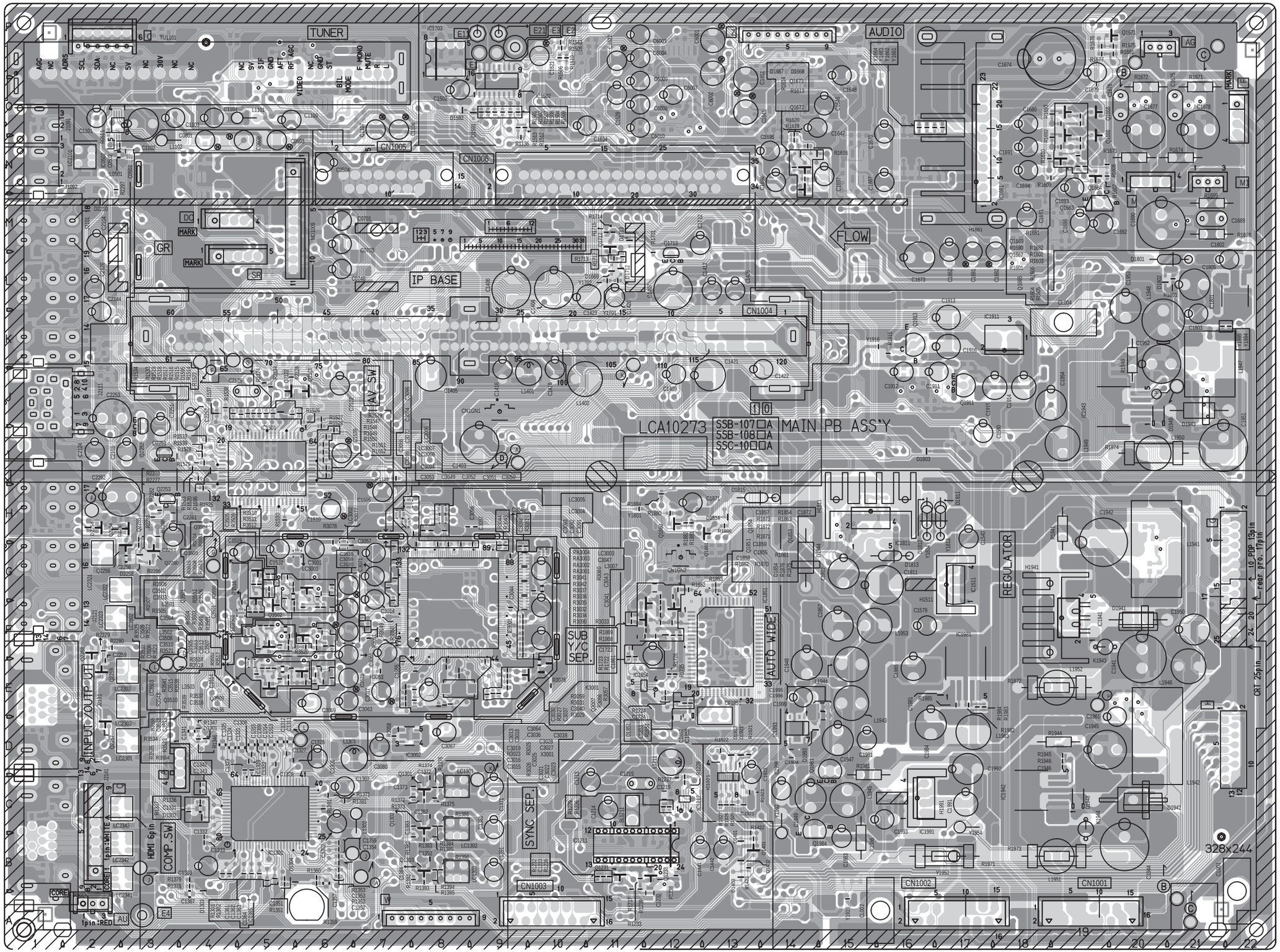


PATTERN DIAGRAMS

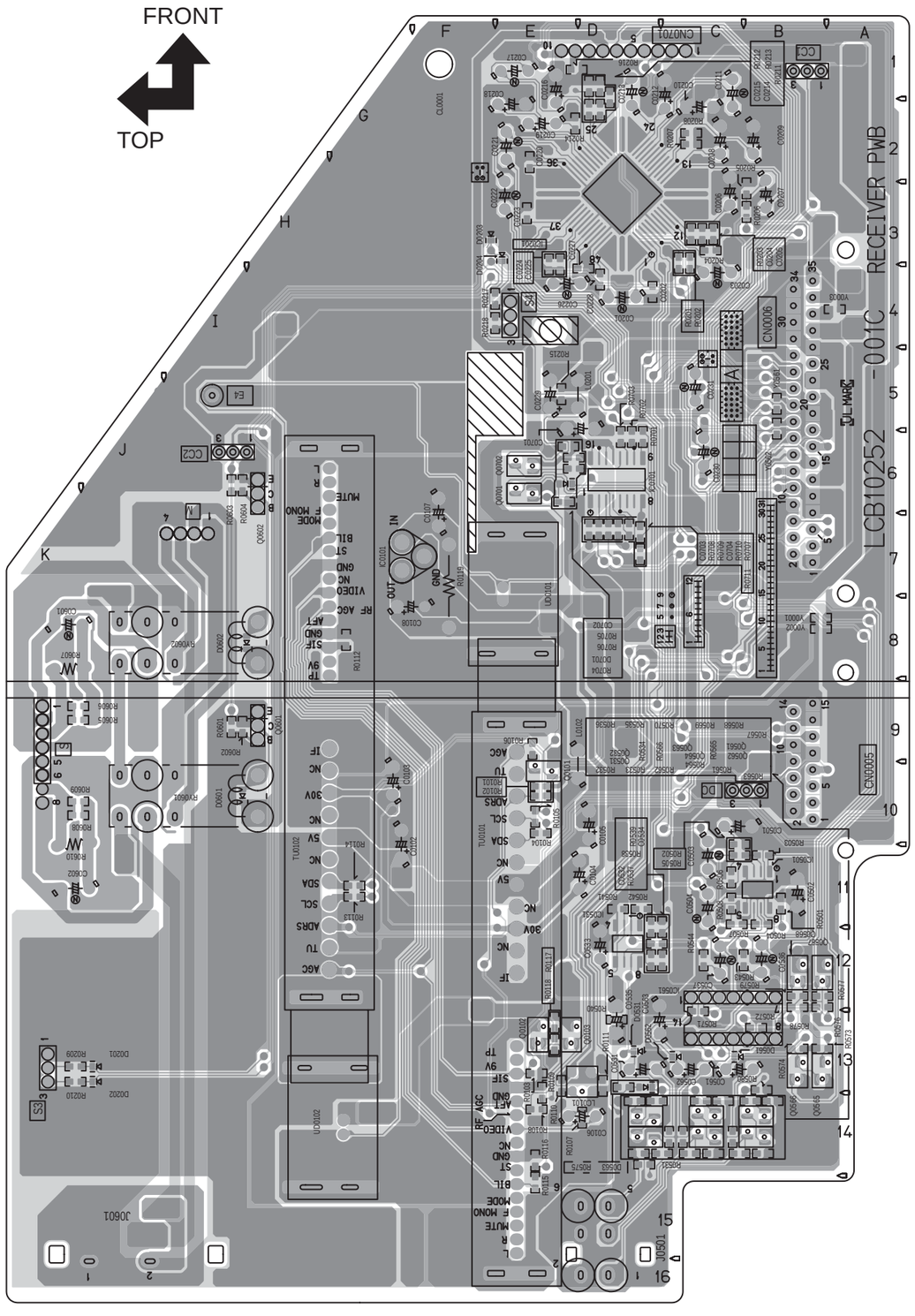
MAIN PWB PATTERN [SOLDER SIDE]



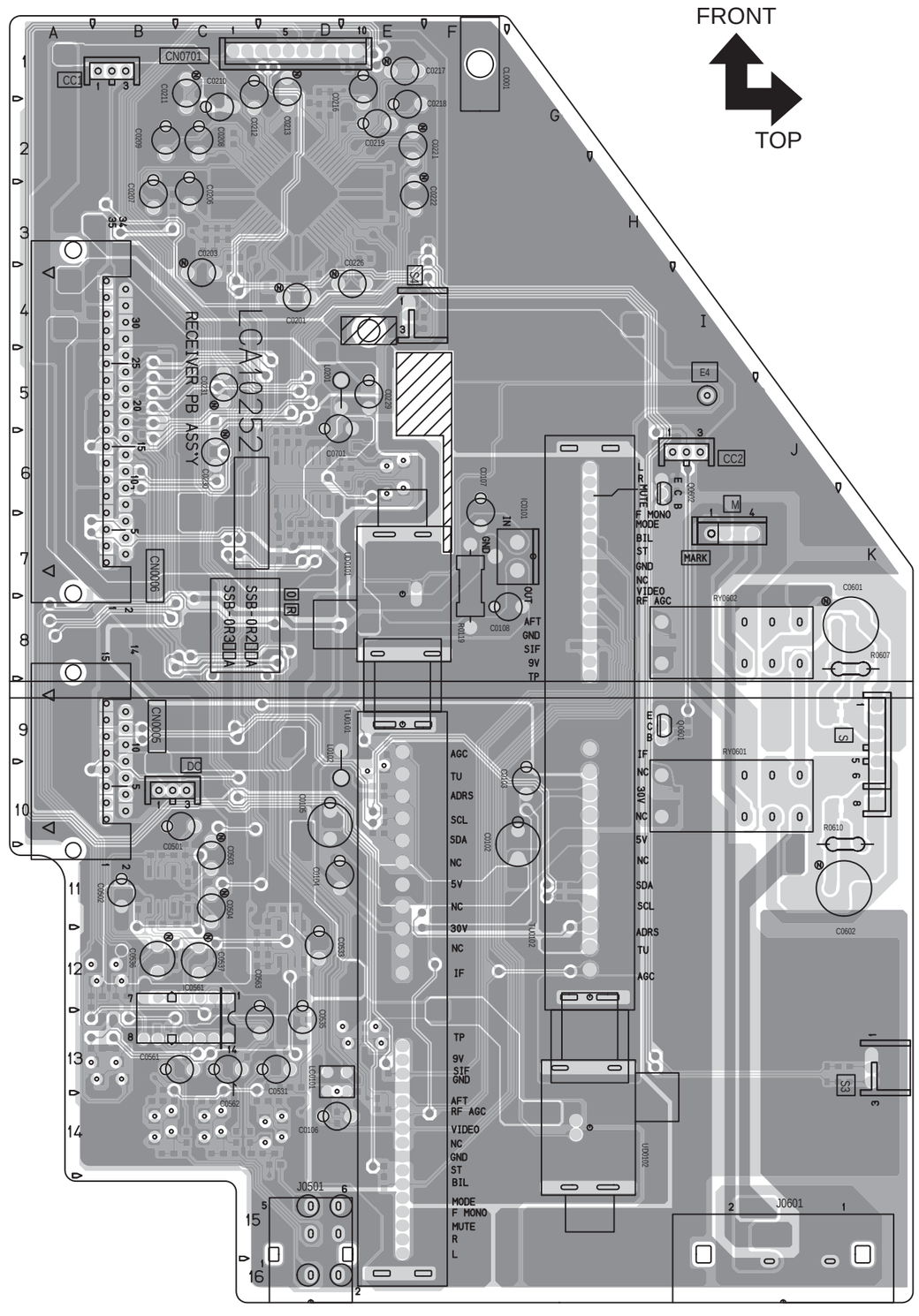
MAIN PWB PATTERN [PARTS SIDE]



RECEIVER PWB PATTERN [SOLDER SIDE]

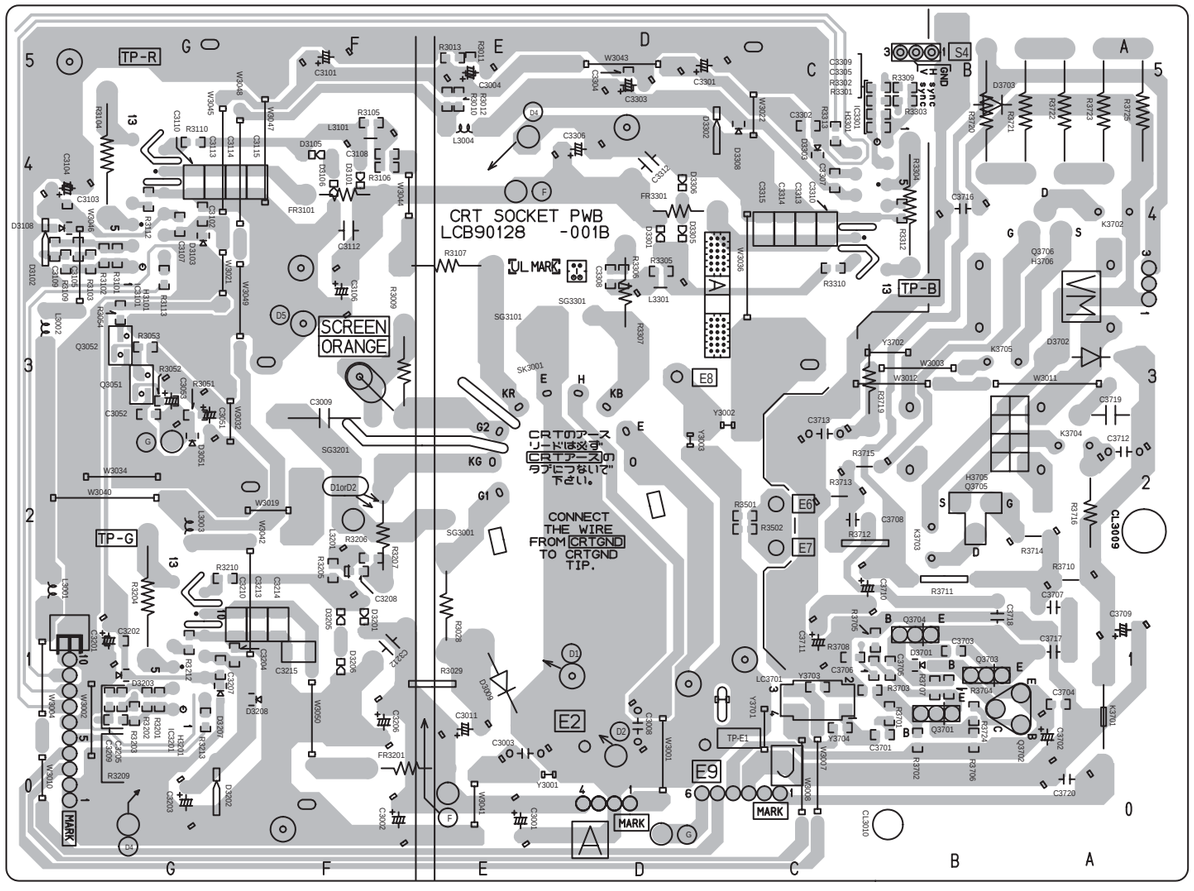


RECEIVER PWB PATTERN [PARTS SIDE]



CRT SOCKET PWB PATTERN

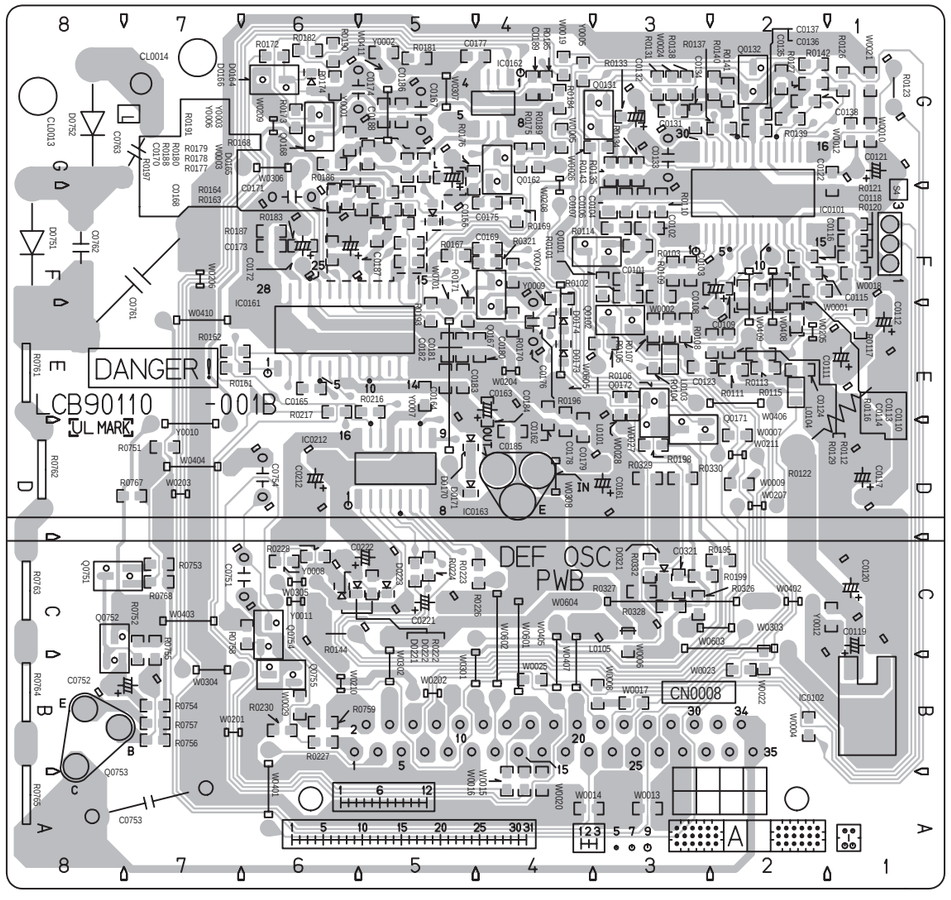
TOP



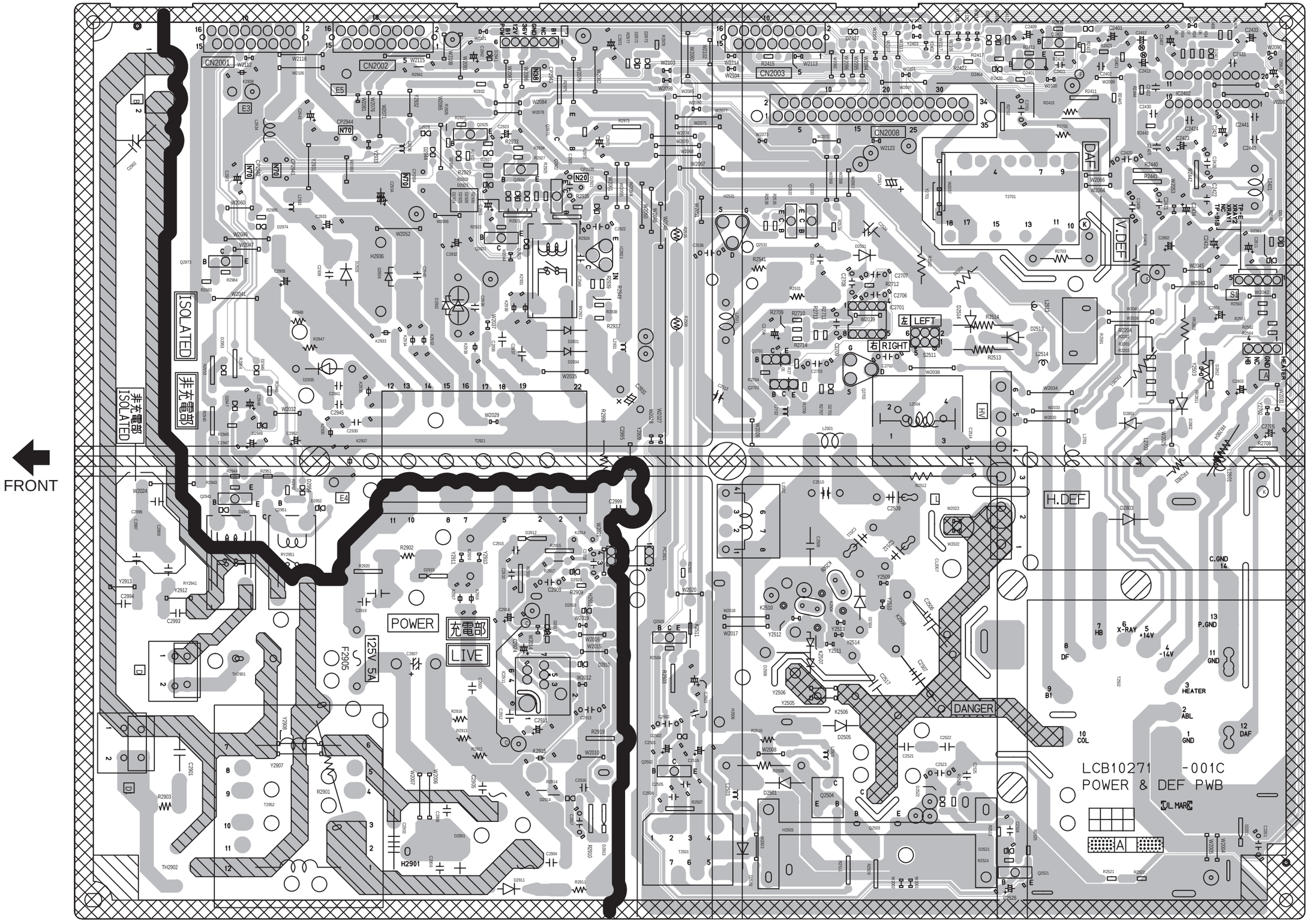
DEF OSC PWB PATTERN

TOP

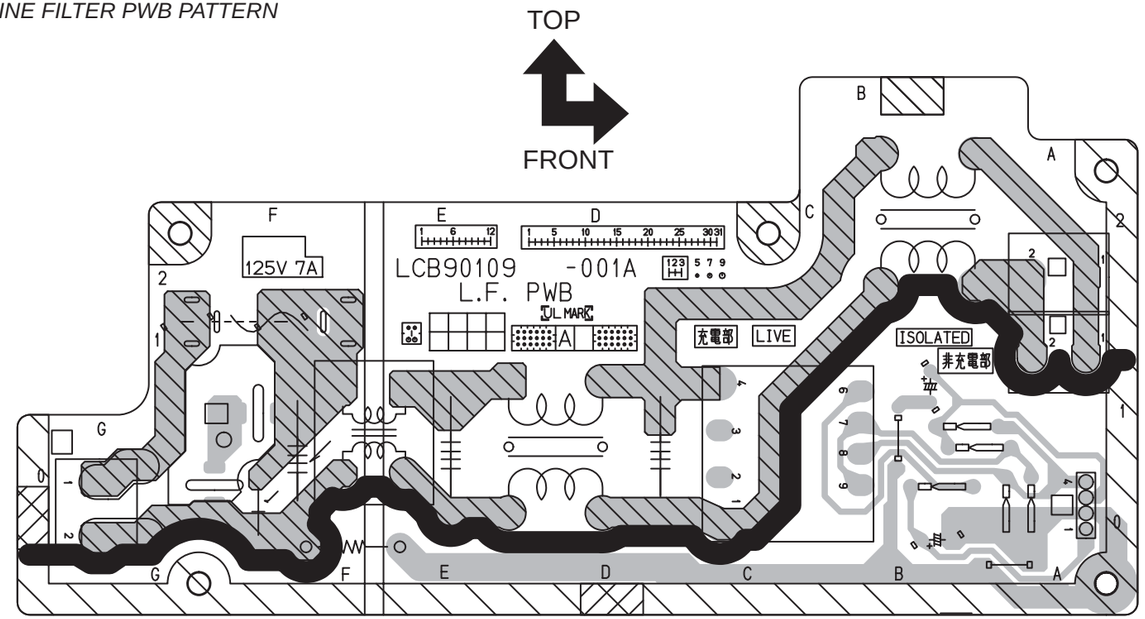
FRONT



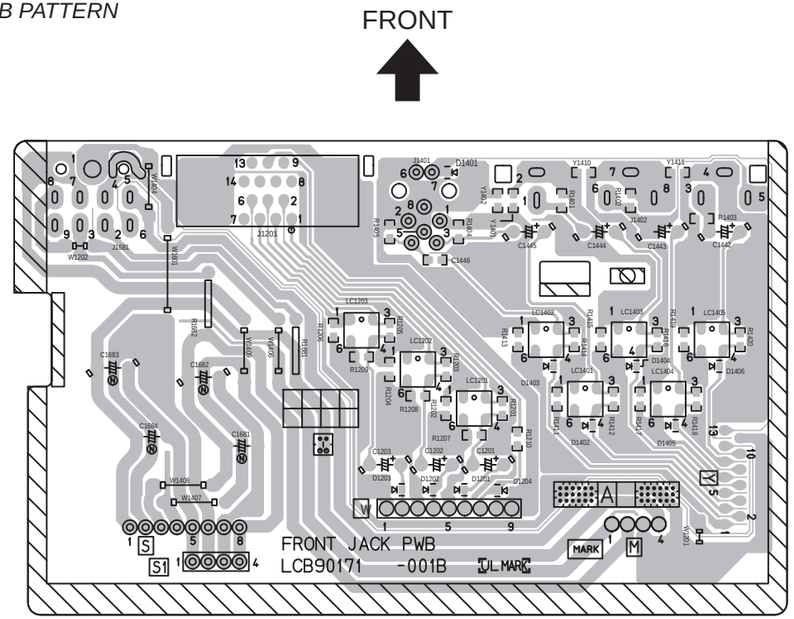
FRONT


CN2001
CN2002
CN2003
CN2008
ISOLATED
非充電部
ISOLATED
POWER
充電部
LIVE
125V 5A
F2905
DANGER
LCB10271 -001C
POWER & DEF PWB
UL MARK
H.DEF
V.DEF
DAF
LEFT
RIGHT
HV
HEATER
C.GND
P.GND
X-RAY
+14V
-14V
HB
DF
COL
ABL
GND
HEATER
TP-E
TP-91B

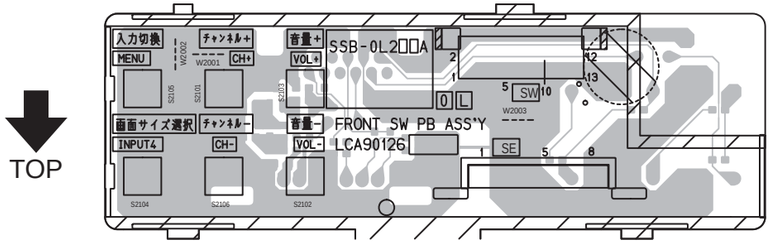
LINE FILTER PWB PATTERN



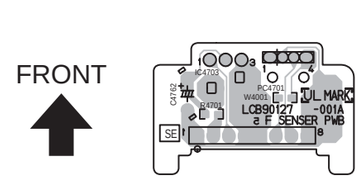
FRONT JACK PWB PATTERN



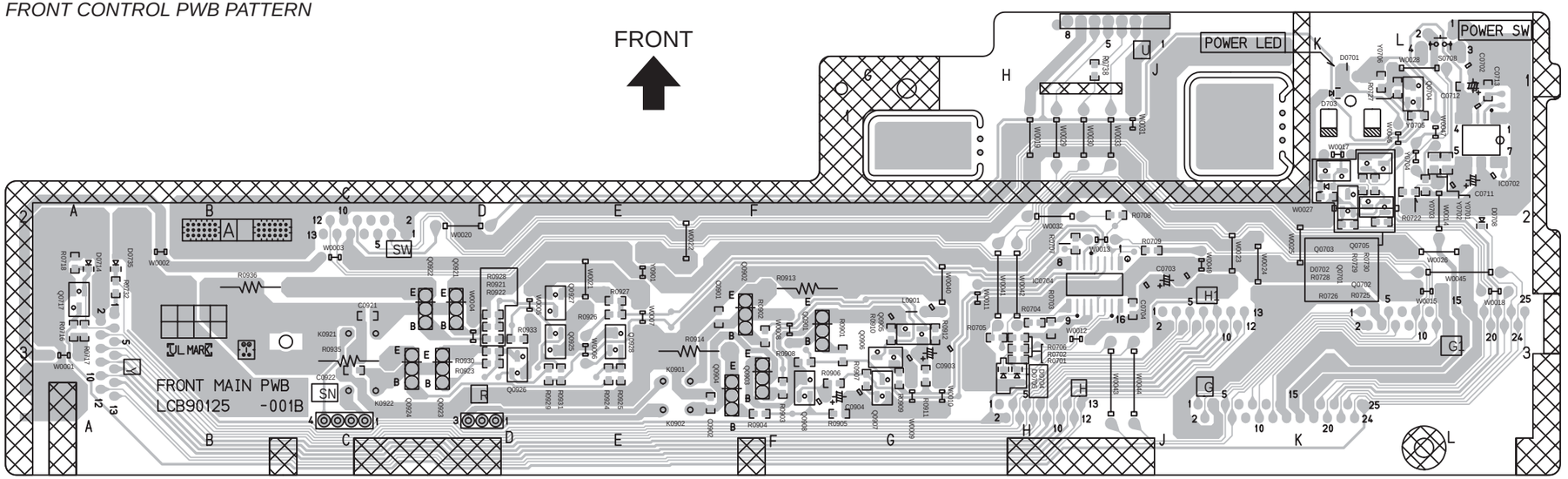
FRONT SW PWB PATTERN



FRONT SENSOR PWB PATTERN



FRONT CONTROL PWB PATTERN



CHANNEL CHART (US)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02 03 04 05 06		I
		VH	07 08 09 10 11 12 13		II
×	○	MID	A	14	I
			B	15	
			C	16	II
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W+1	37	
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	III
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
		ULTRA	W+29	65	IV
			W+30	66	
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	IV
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
			W+79	120	
			W+80	121	
			W+81	122	
			W+82	123	
			W+83	124	
			W+84	125	
		SUB MID	A-8	01	I
			A-4	96	
			A-3	97	II
			A-2	98	
			A-1	99	
○	×	UHF	14 ≀ 69		IV

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

CHANNEL CHART (CA)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02 03 04 05 06		I
		VH	07 08 09 10 11 12 13		II
×	○	MID	A	14	
			B	15	
			C	16	
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	III
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W+1	37	
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
		ULTRA	W+29	65	IV
			W+30	66	
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	IV
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
			W+79	120	
			W+80	121	
			W+81	122	
			W+82	123	
			W+83	124	
			W+84	125	
		SUB MID	A-8	01	I
			A-4	96	
			A-3	97	II
			A-2	98	
			A-1	99	
○	×	UHF	14 ≀ 69		IV

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
www.jvcservice.com(US Only)

JVC CANADA INC.
Head office : 21 Finchdene Square Scarborough, Ontario M1X 1A7 (416)293-1311

(No.52170)

Printed in Japan
WPC

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS	
CR	Carbon Resistor
FR	Fusible Resistor
PR	Plate Resistor
VR	Variable Resistor
HV R	High Voltage Resistor
MF R	Metal Film Resistor
MG R	Metal Glazed Resistor
MP R	Metal Plate Resistor
OM R	Metal Oxide Film Resistor
CMF R	Coating Metal Film Resistor
UNF R	Non-Flammable Resistor
CH V R	Chip Variable Resistor
CH MG R	Chip Metal Glazed Resistor
COMP. R	Composition Resistor
LPTC R	Linear Positive Temperature Coefficient Resistor

CAPACITORS	
C CAP.	Ceramic Capacitor
E CAP.	Electrolytic Capacitor
M CAP.	Mylar Capacitor
CH CAP.	Chip Capacitor
HV CAP.	High Voltage Capacitor
MF CAP.	Metalized Film Capacitor
MM CAP.	Metalized Mylar Capacitor
MP CAP.	Metalized Polystyrol Capacitor
PP CAP.	Polypropylene Capacitor
PS CAP.	Polystyrol Capacitor
TF CAP.	Thin Film Capacitor
MPP CAP.	Metalized Polypropylene Capacitor
TAN. CAP.	Tantalum Capacitor
CH C CAP.	Chip Ceramic Capacitor
BP E CAP.	Bi-Polar Electrolytic Capacitor
CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

CONTENTS

USING P.W. BOARD & REMOTE CONTROL UNIT 3-2
EXPLODED VIEW PARTS LIST -1 3-3
EXPLODED VIEW -1 3-3
EXPLODED VIEW PARTS LIST -2 3-4
EXPLODED VIEW -2 3-5
PRINTED WIRING BOARD PARTS LIST 3-6
MAIN P.W. BOARD ASS'Y (SSB-1076A-M2) 3-6
DEF & POWER P.W. BOARD ASS'Y (SSB-2076A-M2) 3-10
CRT SOCKET P.W. BOARD ASS'Y (SSB-3076A-M2) 3-12
LINE FILTER P.W. BOARD ASS'Y (SSB-9076A-M2) 3-13
DEF OSC P.W. BOARD ASS'Y (SSB0H076A-M2) 3-13
FRONT CONTROL P.W. BOARD ASS'Y (SSB0L076A-M2) 3-14
FRONT JACK P.W. BOARD ASS'Y (SSB0L176A-M2) 3-15
FRONT SW P.W. BOARD ASS'Y (SSB0L276A-M2) 3-15
FRONT SENSOR P.W. BOARD ASS'Y (SSB0L476A-M2) 3-15
RECEIVER P.W. BOARD ASS'Y (SSB0R276A-M2) 3-15
DIGITAL INPUT MODULE P.W. BOARD ASS'Y (34WP84CP-S) 3-17
MI-COM & DIST MODULE P.W. BOARD ASS'Y (SSB0D076A-M2) 3-17
REMOTE CONTROL UNIT PARTS LIST (RM-C11G-1H) 3-17
PACKING 3-18
PACKING PARTS LIST 3-18

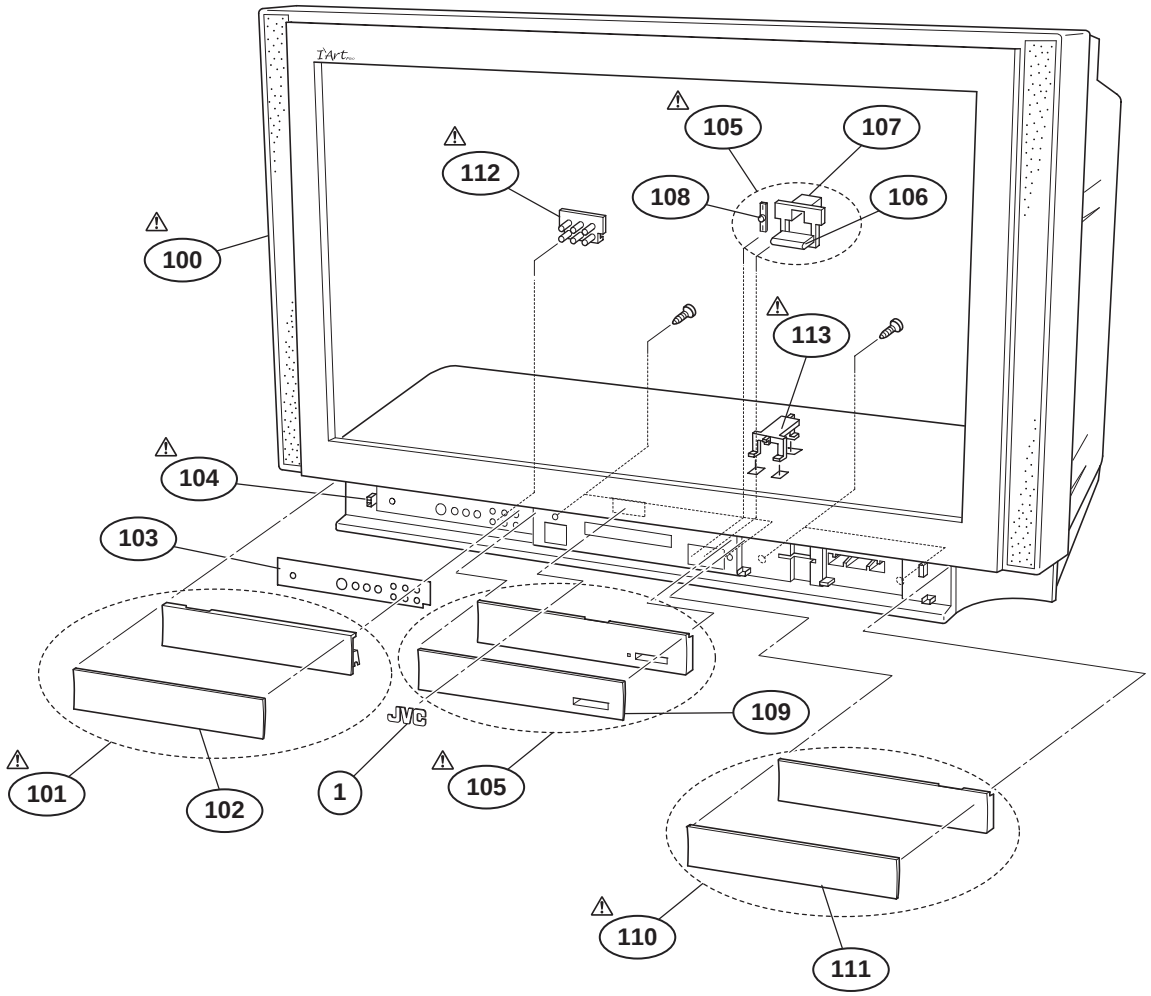
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y	AV-34WP84/ZA
MAIN P.W.B	SSB-1076A-M2
DEF & POWER P.W.B	SSB-2076A-M2
CRT SOCKET P.W.B	SSB-3076A-M2
LINE FILTER P.W.B	SSB-9076A-M2
DEF OSC P.W.B	SSB0H076A-M2
FRONT CONTROL P.W.B	SSB0L076A-M2
FRONT JACK P.W.B	SSB0L176A-M2
FRONT SW P.W.B	SSB0L276A-M2
FRONT SENSOR P.W.B	SSB0L476A-M2
RECEIVER P.W.B	SSB0R276A-M2
DIGITAL INPUT MODULE P.W.B	34WP84CP-S
MI-COM & DIST MODULE P.W.B	SSB0D076A-M2
REMOTE CONTROL UNIT	RM-C11G-1H

EXPLODED VIEW PARTS LIST -1

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	LC41193-006A-C	JVC MARK		
⚠	100	LC11226-008C-0K	FRONT CABI ASSY	Inc.No.101-115	
⚠	101	LC32164-003A	DOOR ASSY	Inc.No.102	
	102	LC21151-003A	DOOR PLATE		
	103	LC31673-007A	OPERATION SHEET		
⚠	104	PU60109	CATCHER		
⚠	105	LC32093-005A	CENTER P. ASSY		
	106	LC32065-001A	POWER KNOB		
	107	LC32094-002A	KNOB CAP		
	108	LC41423-002A	PW.LED LENS		
	109	LC21147-003A	CENTER PLATE		
⚠	110	LC32164-004A	DOOR ASSY		
	111	LC21151-004A	DOOR PLATE		
⚠	112	LC31714-001A-H	CONTROL KNOB		
⚠	113	LC30103-001B-H	CHASSIS ADAPTER		

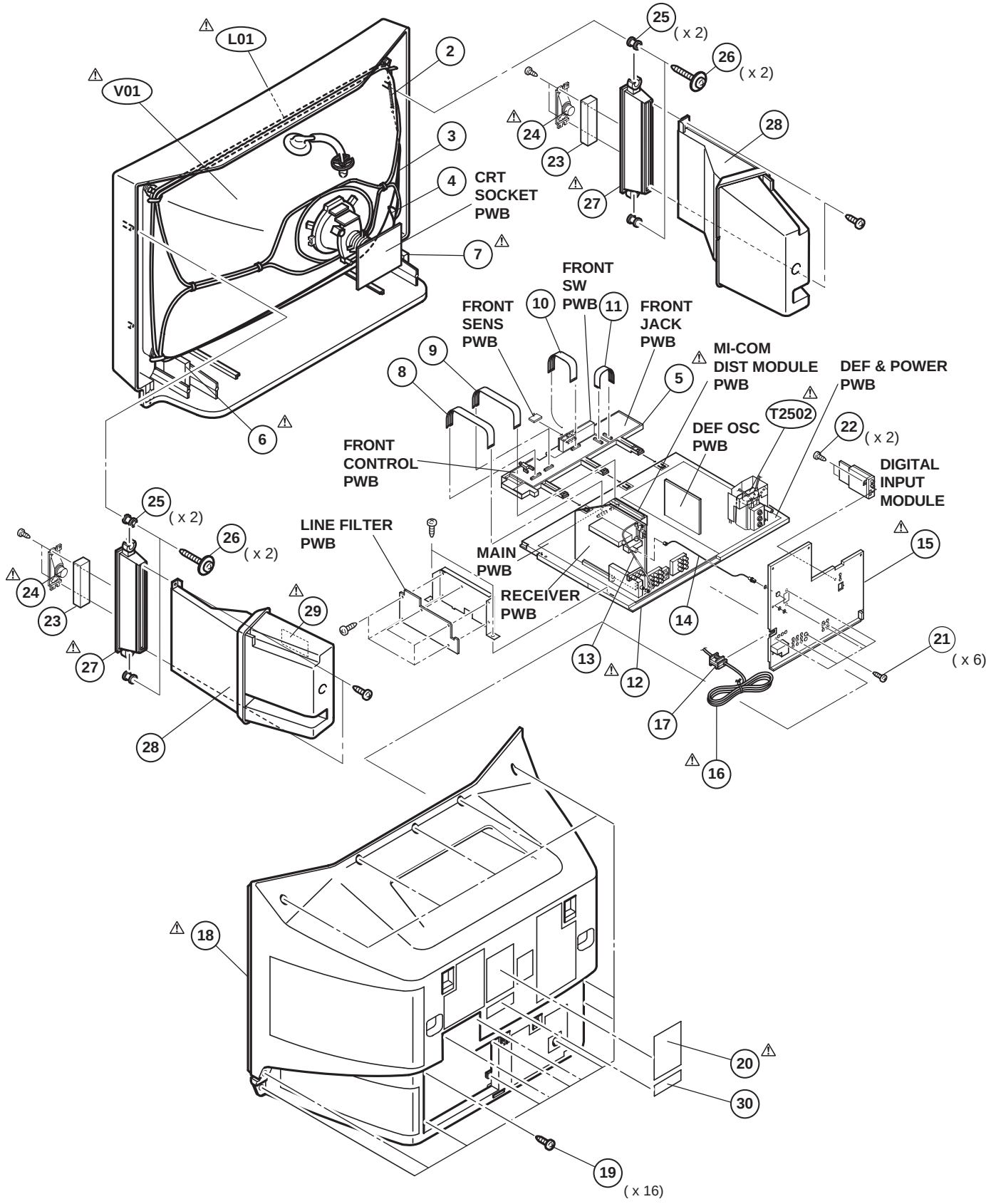
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	W86ERF063X175	PICTURE TUBE(ITC)	Inc.DY,PC MAGNET,WEDGE	
⚠	L01	QQW0173-001	DEG COIL		
⚠	T2502	QQH0167-001	FB TRANSF		
	2	A48457-4-S	SPRING		
	3	WJY0016-002A	E-BRAIDED ASSY		
	4	WJY0013-006A	E-BRAIDED ASSY		
⚠	5	LC11166-003B-HK	CONTROL BASE		
⚠	6	LC31859-001B	CRT SUPPORT		
⚠	7	LC31859-002B	CRT SUPPORT		
	8	QUQ212-2516CL	FFC WIRE		
⚠	9	QUQ212-1316CL	FFC WIRE		
	10	QUQ112-1310CG	FFC WIRE		
	11	QUQ212-1306CF	FFC WIRE		
⚠	12	LC10818-003B-H	CHASSIS BASE		
	13	WJX0013-001A	E-COAXIAL ASSY		
	14	QAM0468-002	F CABLE		
⚠	15	LC11573-002A-A	TERMINAL BOARD		
⚠	16	QMPD200-200-JC	POWER CORD(US/CA)		
	17	LC20106-001D-A	POWER CORD CLAMP		
⚠	18	LC21070-002A-0K	REAR COVER		
	19	QYSBSFG4016M	TAP SCREW	For REAR COVER(x16)	
⚠	20	LC31139-001A-A	RATING LABEL		
	21	QYSBSF3012Z	TAP SCREW	For TERMINAL BOARD(x6)	
	22	QYSBSBG4012Z	TAP SCREW	4.0mm x 12mm(x2)	
	24	CM47846-007	DOME ABSORBER	(x2)	
⚠	25	QAS0095-001	SPEAKER	(x2)	
	26	LC40226-003A-H	SPACER	(x4)	
	27	LC41029-001A-A	TAPPING SCREW	(x4)	
⚠	28	LC20185-002B	DOME HORN	(x2)	
⚠	29	QAS0099-001	DOME SPEAKER ASSY	SP01-SP-02(x2)	
⚠	30	GQ30034-001B-A	WARNING LABEL		
	31	LC30684-005A-A	BBE LABEL		

EXPLODED VIEW -2



PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (SSB-1076A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC1211	TA1318N	IC		
IC1212	SN74AHC2G08T-X	IC		
IC1301	AN15852A	IC		
IC1501	CXA2069Q	IC		
IC1502	M62320FP-X	IC		
IC1511	PQ033RD01SZ	IC		
IC1641	NJM2150AM-X	IC		
IC1661	AN5277	IC		
IC1703	AT24LC12834WP84	IC	(SERVICE)	
IC1801	TA48M033F-X	IC		
IC1941	PQ1CG21H2FZ	IC		
IC1942	SI-8050JD-W	IC		
IC1943	PQ1CY1032Z-W	IC		
IC1981	PQ070XH02Z-W	IC		
IC1991	PQ12RD11	IC		
IC1993	MM1565AF-X	IC		
IC3001	MN82832	IC		
IC3002	R1170H331B-X	IC		
IC6001	NJM2701M-X	IC		
Q0701	2SK2090-X	CHIP FET		
Q0702	2SK2090-X	CHIP FET		
Q1101	2SC3928A/QR/-X	SI TRANSISTOR		
Q1102	2SA1530A/QR/-X	SI TRANSISTOR		
Q1103	2SC3928A/QR/-X	SI TRANSISTOR		
Q1232	2SA1530A/QR/-X	SI TRANSISTOR		
Q1301	2SC3837K/NP/-X	TRANSISTOR		
Q1302	2SC3837K/NP/-X	TRANSISTOR		
Q1303	2SC3837K/NP/-X	TRANSISTOR		
Q1531	2SC3928A/QR/-X	SI TRANSISTOR		
Q1668	UN2213-X	DIGI TRANSISTOR		
Q1669	2SC3928A/QR/-X	SI TRANSISTOR		
Q1672	2SC3928A/QR/-X	SI TRANSISTOR		
Q1673	2SA1530A/QR/-X	SI TRANSISTOR		
Q1712	2SA1530A/QR/-X	SI TRANSISTOR		
Q1713	2SC2785/JH/-T	SI TRANSISTOR		
Q1961	2SC3928A/QR/-X	SI TRANSISTOR		
Q1962	2SC3928A/QR/-X	SI TRANSISTOR		
Q1964	2SC3928A/QR/-X	SI TRANSISTOR		
Q1965	UN2213-X	DIGI TRANSISTOR		
Q1981	2SC4682-T	TRANSISTOR		
Q1984	2SC4682-T	TRANSISTOR		
Q3001	2SC3928A/QR/-X	SI TRANSISTOR		
Q3002	2SC3928A/QR/-X	SI TRANSISTOR		
Q3003	2SA1530A/QR/-X	SI TRANSISTOR		
Q3004	2SC3928A/QR/-X	SI TRANSISTOR		
Q3005	2SC3928A/QR/-X	SI TRANSISTOR		
Q3006	2SA1530A/QR/-X	SI TRANSISTOR		
Q3007	2SA1530A/QR/-X	SI TRANSISTOR		
Q3501	2SA1530A/QR/-X	SI TRANSISTOR		
Q3502	2SC3928A/QR/-X	SI TRANSISTOR		
Q3505	2SA1530A/QR/-X	SI TRANSISTOR		
Q3506	2SC3928A/QR/-X	SI TRANSISTOR		
Q3509	2SA1530A/QR/-X	SI TRANSISTOR		
Q3510	2SC3928A/QR/-X	SI TRANSISTOR		
Q6001	2SC3928A/QR/-X	SI TRANSISTOR		
Q6002	2SC3928A/QR/-X	SI TRANSISTOR		
D1093	MA8082/M/-X	Z DIODE		
D1301	MA8100/M/-X	Z DIODE		
D1302	MA8100/M/-X	Z DIODE		
D1595	MA8100/M/-X	Z DIODE		
D1596	MA8100/M/-X	Z DIODE		
D1667	MA111-X	SI DIODE		
D1668	MA111-X	SI DIODE		
D1669	MA111-X	SI DIODE		
D1675	MA8330/L/-X	CHIP ZENER DIODE		
D1676	MA8330/L/-X	CHIP ZENER DIODE		
D1702	MA111-X	SI DIODE		
D1703	MA111-X	SI DIODE		
D1704	MA8100/M/-X	Z DIODE		
D1705	MA8100/M/-X	Z DIODE		
D1712	MA111-X	SI DIODE		
D1801	1SR35-400A-T2	SI DIODE		
D1802	MA111-X	SI DIODE		
D1803	MA111-X	SI DIODE		
D1891	MA8082/M/-X	Z DIODE		
D1892	MA8082/M/-X	Z DIODE		
D1893	MA8051/M/-X	Z DIODE		
D1894	MA8051/M/-X	Z DIODE		
D1943	RK34-LFC4	SB DIODE		
D1947	EC30HA03L-X	SB DIODE		
D1948	EC30HA03L-X	SB DIODE		
D1949	EC30HA03L-X	SB DIODE		
D1962	MA3030/H/-X	Z DIODE		
D1964	MA111-X	SI DIODE		
D1965	MA111-X	SI DIODE		
D1967	PTZ6.8B-X	Z DIODE		
D1968	PTZ3.9B-X	CHIP ZENER DIODE		
D1969	PTZ11B-X	Z DIODE		
D1981	MA111-X	SI DIODE		
D1991	MA111-X	SI DIODE		
D1993	MA111-X	SI DIODE		
D2101	MA8100/M/-X	Z DIODE		
D2121	MA8100/M/-X	Z DIODE		
D2201	MA8100/M/-X	Z DIODE		
D2204	MA8100/M/-X	Z DIODE		
D2205	MA8100/M/-X	Z DIODE		
D2206	MA8100/M/-X	Z DIODE		
D2207	MA8100/M/-X	Z DIODE		
D2209	MA8100/M/-X	Z DIODE		
D2210	MA8100/M/-X	Z DIODE		
D2212	MA8100/M/-X	Z DIODE		
D2213	MA8100/M/-X	Z DIODE		
D2215	MA8100/M/-X	Z DIODE		
D2216	MA8100/M/-X	Z DIODE		
D2217	MA8100/M/-X	Z DIODE		
D2218	MA8100/M/-X	Z DIODE		
D2219	MA8100/M/-X	Z DIODE		
D2401	MA8100/M/-X	Z DIODE		
D2402	MA8100/M/-X	Z DIODE		
D2403	MA8100/M/-X	Z DIODE		
D2404	MA8100/M/-X	Z DIODE		
D2406	MA8100/M/-X	Z DIODE		
D2421	MA8100/M/-X	Z DIODE		
D2422	MA8100/M/-X	Z DIODE		
C1102	QETN1AM-108Z	E CAPACITOR	1000uF	10V M
C1103	QETN1HM-106Z	E CAPACITOR	10uF	50V M
C1111	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1112	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1113	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1213	QETN1CM-107Z	E CAPACITOR	100uF	16V M
C1214	QETN1HM-225Z	E CAPACITOR	2.2uF	50V M
C1215	QFLC1HJ-103Z	M CAPACITOR	0.01uF	50V J
C1216	NCF11CZ-475X	C CAPACITOR	4.7uF	16V Z
C1218	NCB21CK-105X	C CAPACITOR	1uF	16V K
C1219	NCF11CZ-475X	C CAPACITOR	4.7uF	16V Z
C1233	NDC31HJ-180X	C CAPACITOR	18pF	50V J
C1301	QETN1CM-107Z	E CAPACITOR	100uF	16V M
C1302	QETN1CM-107Z	E CAPACITOR	100uF	16V M
C1303	QETN1CM-107Z	E CAPACITOR	100uF	16V M
C1304	NCB31CK-104X	C CAPACITOR	0.1uF	16V K
C1305	NCB31CK-104X	C CAPACITOR	0.1uF	16V K
C1306	NCB31CK-104X	C CAPACITOR	0.1uF	16V K
C1307	QETN1CM-106Z	E CAPACITOR	10uF	16V M
C1308	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1309	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1311	NCB21CK-105X	C CAPACITOR	1uF	16V K
C1312	NCB21CK-105X	C CAPACITOR	1uF	16V K
C1313	NCB21CK-105X	C CAPACITOR	1uF	16V K
C1321	NCB21CK-105X	C CAPACITOR	1uF	16V K
C1322	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1323	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1324	NCB21CK-105X	C CAPACITOR	1uF	16V K
C1325	NCB21CK-105X	C CAPACITOR	1uF	16V K
C1326	NDC31HJ-101X	C CAPACITOR	100pF	50V J
C1327	NDC31HJ-101X	C CAPACITOR	100pF	50V J
C1328	NDC31HJ-101X	C CAPACITOR	100pF	50V J
C1329	NDC31HJ-100X	C CAPACITOR	10pF	50V J
C1331	NCB21CK-105X	C CAPACITOR	1uF	16V K
C1332	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1333	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1341	NCB21CK-105X	C CAPACITOR	1uF	16V K
C1342	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1343	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1351	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1352	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1353	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1354	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1355	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C1366	NCB21CK-105X	C CAPACITOR	1uF	16V K
C1368	NCB21CK-105X	C CAPACITOR	1uF	16V K
C1371	QETN1CM-336Z	E CAPACITOR	33uF	16V M
C1372	NCB31CK-104X	C CAPACITOR	0.1uF	16V K
C1381	QETN1CM-336Z	E CAPACITOR	33uF	16V M

⚠Ref No.	Part No.	Part Name	Description	Local
C1382	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1391	QETN1CM-336Z	E CAPACITOR	33uF 16V M	
C1392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1403	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	
C1404	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	
C1405	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	
C1406	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	
C1409	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1410	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1411	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1412	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C1415	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1416	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1417	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1418	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1421	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	
C1423	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C1430	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1431	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1432	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1433	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1502	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1505	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
C1510	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	
C1519	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1531	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1532	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C1539	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
C1540	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C1579	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1641	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	
C1642	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C1643	NCB31CK-563X	C CAPACITOR	0.056uF 16V K	
C1645	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1646	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1647	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C1648	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1651	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	
C1652	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C1653	NCB31CK-563X	C CAPACITOR	0.056uF 16V K	
C1663	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C1665	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C1667	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1668	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1669	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C1670	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1671	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1672	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C1673	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C1674	QETM1HM-108	E CAPACITOR	1000uF 50V M	
C1675	QFV21HJ-124Z	MF CAPACITOR	0.12uF 50V J	
C1676	QFV21HJ-124Z	MF CAPACITOR	0.12uF 50V J	
C1677	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
C1678	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
C1679	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1680	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1696	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1697	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1702	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C1712	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1802	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1803	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1941	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C1942	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
C1944	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
C1945	QEZ0256-228	E CAPACITOR	2200uF 10V M	
C1947	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C1948	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C1949	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	
C1950	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	
C1951	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C1952	QEZ0256-128	E CAPACITOR	1200uF 10V M	
C1953	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M	
C1954	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	
C1955	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C1961	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C1981	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C1984	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	
C1985	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C1991	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C1992	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C1994	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C1995	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C1996	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2103	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2104	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2105	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2106	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2123	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2124	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2126	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2127	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2128	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2144	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2145	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2146	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2302	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C2303	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C2322	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C2323	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C2341	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C2342	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C2343	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C3001	QENC1AM-336Z	BP E CAPACITOR	33uF 10V M	
C3002	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C3003	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C3004	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C3005	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C3006	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3007	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C3008	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C3009	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C3010	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C3011	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C3012	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3013	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3014	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C3015	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3017	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
C3018	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3019	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3020	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3021	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3022	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3023	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3024	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3025	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C3026	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3027	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C3028	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C3029	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3030	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3031	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3032	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C3033	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C3034	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C3035	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C3036	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3037	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3038	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3039	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3041	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C3042	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3044	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3045	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3046	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3047	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C3048	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3049	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3050	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3051	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3052	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3053	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3054	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3055	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3056	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3057	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C3058	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3059	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3060	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3061	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3062	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3063	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3064	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3065	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C3066	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3067	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C3068	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3069	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C3070	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3071	QETN1CM-476Z	E CAPACITOR	47uF 16V M	

⚠Ref No.	Part No.	Part Name	Description Local
C3072	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3077	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C3078	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3079	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C3080	QBTC1CK-106Z	TA E CAPACITOR	10uF 16V K
C3082	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C3086	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C3088	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C3089	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C3090	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C3099	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3100	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3502	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C3503	NDC31HJ-121X	C CAPACITOR	120pF 50V J
C3504	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C3506	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C3507	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3508	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C3509	NDC31HJ-121X	C CAPACITOR	120pF 50V J
C3510	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C3512	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C3513	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3514	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C3515	NDC31HJ-121X	C CAPACITOR	120pF 50V J
C3516	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C3518	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C3519	QENC1CM-336Z	BP E CAPACITOR	33uF 16V M
C3520	QENC1CM-336Z	BP E CAPACITOR	33uF 16V M
C3521	QENC1CM-336Z	BP E CAPACITOR	33uF 16V M
C6001	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C6002	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C6003	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C6004	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C6005	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C6006	NCB31CK-273X	C CAPACITOR	0.027uF 16V K
C6007	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C6008	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C6009	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C6010	QETN1HM-106Z	E CAPACITOR	10uF 50V M
R0511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0706	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0707	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1097	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1102	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1103	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1119	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1120	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1121	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1125	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1127	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1128	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1134	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1135	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1202	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1203	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1218	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R1219	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R1220	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1226	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1228	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1229	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R1230	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1231	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1232	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1234	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1236	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1240	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1301	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1302	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1337	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1347	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1372	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1374	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1375	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R1378	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1382	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1384	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1385	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R1392	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1394	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1395	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R1401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1407	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1409	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1501	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R1502	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R1504	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R1507	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R1508	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R1509	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R1513	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1514	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1515	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1516	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1518	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1519	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1520	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1521	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1523	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1524	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1525	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1526	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1527	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1528	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1529	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1530	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1533	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1534	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1535	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1536	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1537	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1538	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1539	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1543	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R1547	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1548	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1549	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1550	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1551	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1552	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1560	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1562	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1563	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1571	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1577	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1578	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1579	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1582	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1611	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R1612	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R1613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1615	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R1616	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1619	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1641	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1642	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1643	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1646	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1648	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1649	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1651	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1652	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1653	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1656	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1658	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1659	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1661	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1663	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1665	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1666	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1667	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1668	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1669	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1670	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1671	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R1672	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R1673	QRK126J-102X	UNF C RESISTOR	1kΩ 1/2W J
R1674	QRK126J-102X	UNF C RESISTOR	1kΩ 1/2W J
R1680	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R1681	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description	Local
R1682	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1691	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1693	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1712	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R1713	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R1714	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R1715	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1891	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1892	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1894	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1895	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1896	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R1897	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R1942	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R1943	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D	
⚠R1944	QRK126J-220X	UNF C RESISTOR	22Ω 1/2W J	
R1945	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1946	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1949	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R1950	NRSA63D-822X	MG RESISTOR	8.2kΩ 1/16W D	
R1952	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1953	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R1954	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1957	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D	
R1959	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D	
R1961	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1962	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1963	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R1964	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1965	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1966	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R1967	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R1968	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1969	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1971	QRT039J-1R0	MF RESISTOR	1Ω 3W J	
⚠R1981	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J	
R1982	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1983	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1984	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R1985	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
⚠R1986	QRK126J-331X	UNF C RESISTOR	330Ω 1/2W J	
R1991	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1992	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R2102	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2103	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2104	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2105	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2106	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2122	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2123	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2125	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2126	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2127	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2144	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2145	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2146	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2305	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2308	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2310	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2325	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2328	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2330	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2463	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2464	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2465	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3001	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R3002	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R3003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3004	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3005	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R3006	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3007	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3009	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D	
R3010	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3012	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R3013	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R3014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3015	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3016	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R3017	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	

⚠Ref No.	Part No.	Part Name	Description	Local
R3018	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3020	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D	
R3021	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3022	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3023	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3024	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3025	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3026	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3027	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3028	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3029	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3030	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3031	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3032	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3033	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3036	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3037	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3039	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3040	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3043	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3044	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3045	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3047	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3048	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3049	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3050	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R3051	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R3052	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3053	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R3054	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3055	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R3056	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R3057	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R3058	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3059	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3060	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3062	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3064	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3065	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3071	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3073	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3074	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3075	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3076	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3077	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3078	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3079	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3080	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3081	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3082	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3502	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3503	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3504	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R3505	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3507	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3508	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3509	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3516	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R3517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3518	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3519	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3520	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R3521	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3523	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3525	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3532	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R3533	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3534	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3535	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3536	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R3537	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3539	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3541	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3548	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R3549	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3550	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3551	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3552	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	

⚠Ref No.	Part No.	Part Name	Description Local
R3553	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3554	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3555	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R6001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6002	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6006	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6007	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R6008	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R6009	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R6011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RA3001	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA3002	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA3003	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA3004	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
L0502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
L1102	QQL244K-100Z	PEAKING COIL	10uH K
L1211	QQL244K-100Z	PEAKING COIL	10uH K
L1301	QQL244K-100Z	PEAKING COIL	10uH K
L1302	QQL244K-100Z	PEAKING COIL	10uH K
L1401	QQL244K-100Z	PEAKING COIL	10uH K
L1402	QQL26AK-100Z	CHOKE COIL	10uH K
L1941	QQR1401-001	CHOKE COIL	
L1942	QQR1401-001	CHOKE COIL	
L1943	QQL26AK-330Z	CHOKE COIL	33uH K
L1944	QQL26AK-330Z	CHOKE COIL	33uH K
L1945	QQL26AK-220Z	CHOKE COIL	22uH K
L1946	QQL26AK-220Z	CHOKE COIL	22uH K
L1947	QQR1401-001	CHOKE COIL	
L1948	QQL26AK-100Z	CHOKE COIL	10uH K
L1949	QQL26AK-220Z	CHOKE COIL	22uH K
L1950	QQL26AK-470Z	CHOKE COIL	47uH K
L1951	QQL26AK-470Z	CHOKE COIL	47uH K
L1952	QQL26AK-470Z	CHOKE COIL	47uH K
L1983	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
L3001	NQL092K-6R8X	COIL	6.8uH K
L3002	NQL092K-6R8X	COIL	6.8uH K
L3003	NQR0413-003X	FERRITE BEADS	
L3004	NQR0413-003X	FERRITE BEADS	
L3005	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3006	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3501	NQL092K-6R8X	COIL	6.8uH K
L3502	NQL092K-6R8X	COIL	6.8uH K
L3503	NQL092K-6R8X	COIL	6.8uH K
CN1001	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN1002	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN1003	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN1004	QGC2508C1-C0	CONNECTOR	(1-120)
CN1005	QGB1505J1-15	CONNECTOR	B-B (1-15)
CN1006	QGB1505J1-35	CONNECTOR	B-B (1-35)
CN100C	QGA2501F1-06	CONNECTOR	W-B (1-6)
CN100F	QJB003-041414	SIN ID C-B WIRE	
CN100G	QGF1201C2-25	CONNECTOR	FFC/FPC (1-25)
CN100H	QGF1201C2-13	CONNECTOR	FFC/FPC (1-13)
CN100M	QGA2501C5-04Z	CONNECTOR	W-B (1-4)
CN100Q	WJP0053-002A	E-SH C WIRE C-B	
CN10AU	WJP0052-002A	E-SH C WIRE C-B	
CN10DC	QJB003-042814	SIN ID C-B WIRE	
CN10E4	CE41507-001P	LV CONNECTOR	
CN10SR	QJB003-052610	SIN ID C-B WIRE	
H1661	LC30145-003A	HEAT SINK/AL-F/	
J1091	QNS0001-001	3.5 JACK	AV COMPULINK III
J2101	QNN0521-001	PIN JACK	V/L/R IN
J2111	QND0104-001	S JACK	S IN
K1301	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
K1303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
K1305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
K1306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
K1307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
K1943	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K1944	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K3001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
LC1301	QQR1199-001	EMI FILTER	
LC1302	QQR1199-001	EMI FILTER	
LC1303	QQR1199-001	EMI FILTER	
LC2301	QQR1199-001	EMI FILTER	
LC2302	QQR1199-001	EMI FILTER	
LC2303	QQR1199-001	EMI FILTER	
LC2321	QQR1199-001	EMI FILTER	
LC2322	QQR1199-001	EMI FILTER	
LC2323	QQR1199-001	EMI FILTER	
LC2341	QQR1199-001	EMI FILTER	
LC2342	QQR1199-001	EMI FILTER	
LC2343	QQR1199-001	EMI FILTER	
LC3001	NQR0470-001X	EMI FILTER	22pF 50V +50%-20%
LC3002	NQR0470-001X	EMI FILTER	22pF 50V +50%-20%
LC3003	NQR0483-005X	EMI FILTER	
LC3004	NQR0470-003X	EMI FILTER	100pF 50V +50%-20%
LC3005	NQR0470-001X	EMI FILTER	22pF 50V +50%-20%
LC3006	NQR0470-003X	EMI FILTER	100pF 50V +50%-20%
LC3007	NQR0470-001X	EMI FILTER	22pF 50V +50%-20%
LC3008	NQR0470-001X	EMI FILTER	22pF 50V +50%-20%
LC3501	NQR0470-003X	EMI FILTER	100pF 50V +50%-20%
LC3502	NQR0470-003X	EMI FILTER	100pF 50V +50%-20%
LC3503	NQR0470-003X	EMI FILTER	100pF 50V +50%-20%
SL1211	CSB503F30-T2	C RESONATOR	
⚠TU1101	QAU0303-001	TUNER	SUB
X3001	NAX0570-001X	CRYSTAL	27Hz

DEF & POWER P.W. BOARD ASS'Y (SSB-2076A-M2)

⚠Ref No.	Part No.	Part Name	Description Local
IC2402	STV9380	IC	
IC2911	STR-X6729-F2	IC	
IC2921	SE-B3-LF12	IC	
Q2401	2SC3311A/QR/-T	TRANSISTOR	
Q2402	2SC3311A/QR/-T	TRANSISTOR	
Q2501	2SC3311A/QR/-T	TRANSISTOR	
Q2502	2SC1627A/Y/-T	TRANSISTOR	
⚠Q2503	2SC5905-RL	POW TRANSISTOR	
Q2504	2SB953/QP/-LB	POW TRANSISTOR	
Q2521	2SC3311A/QR/-T	TRANSISTOR	
Q2531	RDN080N25	POWER MOS FET	
Q2532	2SC1959/Y/-T	TRANSISTOR	
Q2533	2SA562TM/Y/-T	TRANSISTOR	
Q2921	2SC3311A/QR/-T	TRANSISTOR	
Q2922	2SC3311A/QR/-T	TRANSISTOR	
Q2924	2SC3311A/QR/-T	TRANSISTOR	
Q2941	2SC3311A/QR/-T	TRANSISTOR	
Q2951	2SC1627A/Y/-T	TRANSISTOR	
Q2971	2SA1371/EF/Z1-T	SI TRANSISTOR	
D2201	1SR35-400A-T2	SI DIODE	
D2403	1SS133-T2	DIODE	
D2404	MTZJ6.8A-T2	Z DIODE	
D2405	1SS133-T2	DIODE	
D2406	MTZJ3.3A-T2	Z DIODE	
D2408	1SS133-T2	DIODE	
D2501	RG2A-LFC4	SI DIODE	
D2502	1SS133-T2	DIODE	
D2503	RK14-T3	SB DIODE	
D2504	RG2A-LFC4	SI DIODE	
D2506	FMV-3FU-F1	SI DIODE	
D2521	MTZJ12C-T2	Z DIODE	
D2522	1SS244-T2	SI DIODE	
D2531	RGP10J-04TS-T3	SI DIODE	
D2561	MA4068N/Z1/-T2	Z DIODE	
D2562	MA4068N/Z1/-T2	Z DIODE	
D2801	RGP10J-04TS-T3	SI DIODE	
D2802	RGP10J-04TS-T3	SI DIODE	
D2803	RH1S-LFA1	SI DIODE	
D2812	1SR124-400A-T2	SI DIODE	
⚠D2901	RBV-606	BRIDGE DIODE	
⚠D2911	RGP10J-04TS-T3	SI DIODE	
D2912	AU01Z-T2	FR DIODE	
D2913	AU01Z-T2	FR DIODE	
D2914	1SS133-T2	DIODE	
D2915	SARS01-T2	SI DIODE	
D2917	MTZJ33B-T2	Z DIODE	
D2922	MTZJ11A-T2	Z DIODE	
D2923	1SS133-T2	DIODE	
D2924	1SS133-T2	DIODE	
D2925	MTZJ6.8C-T2	Z DIODE	
D2926	1SS133-T2	DIODE	
D2928	RGP10J-04TS-T3	SI DIODE	
D2929	1SS133-T2	DIODE	
D2931	31DF6N-FC5	FR DIODE	
D2932	RU3AM-LFC4	SI DIODE	
D2934	31DF6N-FC5	FR DIODE	
D2935	RU3AM-LFC4	SI DIODE	
D2936	FMX-G12S	SI DIODE	
D2941	MTZJ33B-T2	Z DIODE	
D2944	1SS133-T2	DIODE	
D2945	1SS133-T2	DIODE	

⚠Ref No.	Part No.	Part Name	Description Local
D2946	1SS133-T2	DIODE	
D2947	1SS133-T2	DIODE	
D2948	MTZJ5.1B-T2	Z DIODE	
D2952	MTZJ12C-T2	Z DIODE	
D2953	1SS244-T2	SI DIODE	
D2954	1SS133-T2	DIODE	
D2972	MTZJ15B-T2	Z DIODE	
D2973	1SS133-T2	DIODE	
C2201	QFVF1HJ-334Z	MF CAPACITOR	0.33uF 50V J
C2401	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C2402	QFN31HJ-102Z	M CAPACITOR	1000pF 50V J
C2407	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C2408	QFVM2AJ-474Z	MF CAPACITOR	0.47uF 100V J
C2409	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C2411	QCB31HK-222Z	C CAPACITOR	2200pF 50V K
C2412	QENC1CM-226Z	BP E CAPACITOR	22uF 16V M
C2413	QENC1CM-226Z	BP E CAPACITOR	22uF 16V M
C2420	QFVM2AJ-474Z	MF CAPACITOR	0.47uF 100V J
C2421	QFVM2AJ-224Z	MF CAPACITOR	0.22uF 100V J
C2422	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C2423	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C2424	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C2425	QFN31HJ-472Z	M CAPACITOR	4700pF 50V J
C2426	QFVM2AJ-224Z	MF CAPACITOR	0.22uF 100V J
C2429	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C2430	QCS31HJ-471Z	C CAPACITOR	470pF 50V J
C2431	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C2432	QCS31HJ-151Z	C CAPACITOR	150pF 50V J
C2433	QETN1EM-227Z	E CAPACITOR	220uF 25V M
C2434	QETN1EM-227Z	E CAPACITOR	220uF 25V M
C2435	QETN1VM-477Z	E CAPACITOR	470uF 35V M
C2440	QFN32AJ-102Z	M CAPACITOR	1000pF 100V J
C2441	QFN32AJ-102Z	M CAPACITOR	1000pF 100V J
C2501	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C2502	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J
C2503	QFN32DK-103	M CAPACITOR	0.01uF 200V K
C2504	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
C2505	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
⚠C2506	QFZ0122-752	MPP CAPACITOR	7500pF 1.8kV H
⚠C2507	QFZ0122-652	MPP CAPACITOR	6500pF 1.8kV H
C2508	QFP32JJ-153	PP CAPACITOR	0.015uF 630V J
C2509	QFZ0128-683	MPP CAPACITOR	0.068uF DC400V H
C2510	QFZ0197-683	MPP CAPACITOR	0.068uF 250V J
C2511	QFZ0128-473	MPP CAPACITOR	0.047uF DC400V H
C2512	QFZ0128-473	MPP CAPACITOR	0.047uF DC400V H
C2513	QFZ0197-335	MPP CAPACITOR	3.3uF 250V J
C2514	QCS32HJ-561	C CAPACITOR	560pF 500V J
C2516	QETN1AM-477Z	E CAPACITOR	470uF 10V M
C2517	QFZ0122-112	MPP CAPACITOR	1100pF 1.8kV H
C2521	QCZ0340-681	C CAPACITOR	680pF 2kV K
C2522	QCZ0340-681	C CAPACITOR	680pF 2kV K
C2523	QFN32AJ-472Z	M CAPACITOR	4700pF 100V J
C2524	QCS32HJ-470Z	C CAPACITOR	47pF 500V J
C2525	QFLC1HJ-333Z	M CAPACITOR	0.033uF 50V J
C2526	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C2533	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C2534	QFP32JK-222	PP CAPACITOR	2200pF 630V K
C2536	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C2591	QEZ0605-107	E CAPACITOR	100uF 200V M
C2701	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J
C2801	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C2802	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C2803	QETM2EM-336	E CAPACITOR	33uF 250V M
C2811	QETN1HM-107Z	E CAPACITOR	100uF 50V M
⚠C2902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
⚠C2904	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
⚠C2905	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
⚠C2906	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
C2907	QEZ0569-827	E CAPACITOR	820uF 200V M
⚠C2908	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
C2909	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C2911	QEHR1VM-107Z	E CAPACITOR	100uF 35V M
C2912	QCZ0340-152	C CAPACITOR	1500pF 2kV K
C2913	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J
C2914	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C2917	QFN31HJ-102Z	M CAPACITOR	1000pF 50V J
C2919	QFP32GJ-103	PP CAPACITOR	0.01uF 400V J
C2921	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C2923	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C2924	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C2925	QFLC1HJ-273Z	M CAPACITOR	0.027uF 50V J
C2930	QCS31HJ-181Z	C CAPACITOR	180pF 50V J
C2931	QEZ0605-107	E CAPACITOR	100uF 200V M
C2932	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C2933	QETN1HM-477Z	E CAPACITOR	470uF 50V M
C2934	QEZ0257-228	E CAPACITOR	2200uF 25V M
C2935	QEHQ1HM-108	E CAPACITOR	1000uF 50V M
C2937	QCZ0340-681	C CAPACITOR	680pF 2kV K
C2938	QCZ0340-681	C CAPACITOR	680pF 2kV K
C2939	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
C2940	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
C2941	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
C2942	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C2943	QETN1HM-227Z	E CAPACITOR	220uF 50V M
C2947	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C2948	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C2949	QCB31HK-271Z	C CAPACITOR	270pF 50V K
C2971	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C2972	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C2973	QETN1HM-106Z	E CAPACITOR	10uF 50V M
⚠C2993	QCZ9074-472	C CAPACITOR	4700pF AC250V M
⚠C2994	QCZ9074-472	C CAPACITOR	4700pF AC250V M
⚠C2995	QCZ9074-472	C CAPACITOR	4700pF AC250V M
⚠C2997	QCZ9074-472	C CAPACITOR	4700pF AC250V M
⚠C2998	QCZ9074-472	C CAPACITOR	4700pF AC250V M
⚠C2999	QCZ9074-472	C CAPACITOR	4700pF AC250V M
R2201	QRA14CF-3903Y	CMF RESISTOR	390kΩ 1/4W F
R2202	QRA14CF-3303Y	CMF RESISTOR	330kΩ 1/4W F
R2203	QRA14CF-5603Y	CMF RESISTOR	560kΩ 1/4W F
R2204	QRA14CF-3903Y	CMF RESISTOR	390kΩ 1/4W F
R2401	QRA14CF-5601Y	CMF RESISTOR	5.6kΩ 1/4W F
R2404	QRA14CF-8201Y	CMF RESISTOR	8.2kΩ 1/4W F
R2405	QRA14CF-4701Y	CMF RESISTOR	4.7kΩ 1/4W F
R2406	QRA14CF-1002Y	CMF RESISTOR	10kΩ 1/4W F
R2407	QRA14CF-8200Y	CMF RESISTOR	820Ω 1/4W F
R2408	QRA14CF-3300Y	CMF RESISTOR	330Ω 1/4W F
R2410	QRT029J-1R5	MF RESISTOR	1.5Ω 2W J
R2411	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R2412	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J
R2413	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J
R2415	QRE141J-154Y	C RESISTOR	150kΩ 1/4W J
R2416	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R2418	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R2420	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
R2421	QRA14CF-8201Y	CMF RESISTOR	8.2kΩ 1/4W F
R2440	QRE121J-221Y	C RESISTOR	220Ω 1/2W J
R2441	QRE121J-151Y	C RESISTOR	150Ω 1/2W J
R2442	QRE121J-151Y	C RESISTOR	150Ω 1/2W J
R2443	QRA14CF-1002Y	CMF RESISTOR	10kΩ 1/4W F
R2444	QRA14CF-4702Y	CMF RESISTOR	47kΩ 1/4W F
R2445	QRA14CF-4701Y	CMF RESISTOR	4.7kΩ 1/4W F
R2502	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R2503	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R2504	QRE141J-820Y	C RESISTOR	82Ω 1/4W J
R2505	QRL039J-470	OMF RESISTOR	47Ω 3W J
R2506	QRL039J-470	OMF RESISTOR	47Ω 3W J
R2507	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R2508	QRT039J-1R0	MF RESISTOR	1Ω 3W J
R2509	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R2510	QRL029J-100	OMF RESISTOR	10Ω 2W J
R2512	QRL029J-471	OMF RESISTOR	470Ω 2W J
R2521	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J
R2522	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J
R2523	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J
R2525	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
R2526	QRE141J-470Y	C RESISTOR	47Ω 1/4W J
R2531	QRL039J-332	OMF RESISTOR	3.3kΩ 3W J
R2532	QRL029J-820	OMF RESISTOR	82Ω 2W J
R2533	QRL029J-820	OMF RESISTOR	82Ω 2W J
R2534	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
R2535	QRE141J-470Y	C RESISTOR	47Ω 1/4W J
R2536	QRE141J-470Y	C RESISTOR	47Ω 1/4W J
R2541	QRL039J-472	OMF RESISTOR	4.7kΩ 3W J
⚠R2561	QRA14CD-1502Y	CMF RESISTOR	15kΩ 1/4W D
⚠R2562	QRA14CD-5601Y	CMF RESISTOR	5.6kΩ 1/4W D
⚠R2563	QRA14CD-1502Y	CMF RESISTOR	15kΩ 1/4W D
⚠R2564	QRA14CF-2702Y	CMF RESISTOR	27kΩ 1/4W F
R2565	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J
R2591	QRZ0227-3R3	UNF WW RESISTOR	3.3Ω 10 K
R2701	QRL039J-100	OMF RESISTOR	10Ω 3W J
R2702	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J
R2703	QRZ0056-102Z	COMP RESISTOR	1kΩ 1/2W K
R2901	QRF154K-1R0	UNF WW RESISTOR	1Ω 15W K
R2902	QRG01GJ-470	OMF RESISTOR	47Ω 1W J
R2909	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
R2911	QRL029J-123	OMF RESISTOR	12kΩ 2W J
R2912	QRT029J-R18	MF RESISTOR	0.18Ω 2W J
R2913	QRT029J-R18	MF RESISTOR	0.18Ω 2W J
⚠R2914	QRK126J-101X	UNF C RESISTOR	100Ω 1/2W J
R2915	QRE121J-330Y	C RESISTOR	33Ω 1/2W J
⚠R2917	QRK126J-102X	UNF C RESISTOR	1kΩ 1/2W J
R2918	QRE121J-122Y	C RESISTOR	1.2kΩ 1/2W J

⚠Ref No.	Part No.	Part Name	Description	Local
R2919	QRE121J-684Y	C RESISTOR	680kΩ 1/2W J	
R2920	QRE121J-684Y	C RESISTOR	680kΩ 1/2W J	
R2921	QRE121J-101Y	C RESISTOR	100Ω 1/2W J	
R2922	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R2923	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R2924	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	
R2925	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R2926	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F	
R2927	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
R2929	QRA14CF-8201Y	CMF RESISTOR	8.2kΩ 1/4W F	
R2930	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	
R2933	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R2934	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R2935	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R2937	QRA14CD-5602Y	CMF RESISTOR	56kΩ 1/4W D	
R2938	QRA14CD-5602Y	CMF RESISTOR	56kΩ 1/4W D	
R2939	QRA14CF-6801Y	CMF RESISTOR	6.8kΩ 1/4W F	
R2940	QRE121J-101Y	C RESISTOR	100Ω 1/2W J	
⚠R2941	QRK126J-681X	UNF C RESISTOR	680Ω 1/2W J	
R2943	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R2944	QRE141J-122Y	C RESISTOR	1.2kΩ 1/4W J	
R2945	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	
R2946	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R2947	QRL039J-152	OMF RESISTOR	1.5kΩ 3W J	
R2948	QRL039J-152	OMF RESISTOR	1.5kΩ 3W J	
R2949	QRA14CF-1003Y	CMF RESISTOR	100kΩ 1/4W F	
R2951	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R2952	QRE141J-182Y	C RESISTOR	1.8kΩ 1/4W J	
R2953	QRE121J-181Y	C RESISTOR	180Ω 1/2W J	
R2954	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	
R2972	QRA14CF-1101Y	CMF RESISTOR	1.1kΩ 1/4W F	
R2973	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J	
R2975	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	
R2977	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R2978	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
⚠R2999	QRZ0111-685	C RESISTOR	6.8MΩ 1/2W K	
L2401	QQR1343-003	CHOKE COIL		
L2501	QQR1343-002	CHOKE COIL		
L2502	QQR1408-001	CHOKE COIL		
L2503	QQL26AM-2R7Z	CHOKE COIL	2.7uH M	
L2504	QQR1149-006	LINEARITY COIL		
L2505	QQL26AM-2R7Z	CHOKE COIL	2.7uH M	
L2531	QQLZ028-272	COIL	2.7mH	
L2701	QQR1343-001	CHOKE COIL		
L2931	QQL26AK-330Z	CHOKE COIL	33uH K	
L2933	QQL26AK-330Z	CHOKE COIL	33uH K	
L2934	QQLZ026-260	COIL	26uH ±7%	
L2936	QQL26AK-330Z	CHOKE COIL	33uH K	
T2501	QQR1436-001	DRIVE TRANSF		
T2701	QQR1342-001	DAF TRANSF		
⚠T2921	QQS0232-001	SW TRANSF		
CN2001	QGB1506M1-16	CONNECTOR	B-B (1-16)	
CN2002	QGB1506M1-16	CONNECTOR	B-B (1-16)	
CN2003	QGB1506M1-16	CONNECTOR	B-B (1-16)	
CN2008	QGB1505J1-35	CONNECTOR	B-B (1-35)	
CN200A	QGA2501C5-04Z	CONNECTOR	W-B (1-4)	
CN200B	QGA7901F1-02	CONNECTOR	W-B (1-2)	
CN200D	QGZ5004C1-02	CONNECTOR	(1-2)	
CN200J	QGA2501C5-06Z	CONNECTOR	W-B (1-6)	
CN200L	CE41507-001P	LV CONNECTOR		
CN20E3	CE41507-001P	LV CONNECTOR		
CN20HV	QGZ8005C1-06	CONNECTOR	(1-6)	
CN20S1	QGA2501C5-05Z	CONNECTOR	W-B (1-5)	
⚠CP2934	ICP-N70-T	IC PROTECTOR	2.5A	
⚠CP2935	ICP-N20-Y	IC PROTECTOR	800mA	
⚠CP2944	ICP-N70-T	IC PROTECTOR	2.5A	
⚠F2905	QMFZ049-5R0Z-E	FUSE	5A 125V	
⚠FR2801	QRZ9011-1R5	FUSI RESISTOR	1.5Ω 1/2W J	
⚠FR2802	QRZ9011-1R5	FUSI RESISTOR	1.5Ω 1/2W J	
⚠FR2803	QRZ9009-1R5	FUSI RESISTOR	1.5Ω 1/2W J	
⚠FR2804	QRT029J-2R7	MF RESISTOR	2.7Ω 2W J	
⚠FR2811	QRZ9011-4R7	FUSI RESISTOR	4.7Ω 1/2W J	
H2503	LC32140-001A	HEAT SINK/AL-F/		
H2506	LC30521-001A	HEAT SINK/AL-F/		
H2507	LC21032-001A	HVT SHIELD		
H2531	CEHT11B-002QS	HEAT SINK		
H2901	LC31682-001A	HEAT SINK/FE-P/		
H2911	LC31211-001A	HEAT SINK/AL-F/		
K2915	QQR0621-002Z	FERRITE BEADS		
K2920	QQR1139-001	FERRITE BEADS		
K2930	QQR0621-002Z	FERRITE BEADS		
K2931	QQR0621-002Z	FERRITE BEADS		
K2935	QQR0621-001Z	COIL		
K2938	QQR0621-002Z	FERRITE BEADS		
⚠PC2921	PC123Y22	PHOTO COUPLER		
⚠RY2931	QSK0083-001	RELAY		
⚠RY2941	QSK0083-001	RELAY		
⚠RY2951	QSK0118-001	RELAY		
⚠TH2901	QAD0129-3R0	POSISTOR	3Ω	

CRT SOCKET P.W. BOARD ASS'Y (SSB-3076A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC3101	TDA6120Q/N2	IC		
IC3201	TDA6120Q/N2	IC		
IC3301	TDA6120Q/N2	IC		
Q3701	2SC1906-T	TRANSISTOR		
Q3702	2SA1005/MLK/-T	TRANSISTOR		
Q3703	2SC1959/Y/-T	TRANSISTOR		
Q3704	2SA562TM/Y/-T	TRANSISTOR		
Q3705	2SJ584LS-CB11	POWER MOS FET		
Q3706	2SK2417	POWER MOS FET		
D3009	RM2C-LFA1	SI DIODE		
D3101	1SS244-T2	SI DIODE		
D3103	MA8100/M/-X	Z DIODE		
D3105	1SS244-T2	SI DIODE		
D3106	1SS244-T2	SI DIODE		
D3108	MA8150/M/-X	Z DIODE		
D3201	1SS244-T2	SI DIODE		
D3203	MA8100/M/-X	Z DIODE		
D3205	1SS244-T2	SI DIODE		
D3206	1SS244-T2	SI DIODE		
D3208	MA8150/M/-X	Z DIODE		
D3301	1SS244-T2	SI DIODE		
D3303	MA8100/M/-X	Z DIODE		
D3305	1SS244-T2	SI DIODE		
D3306	1SS244-T2	SI DIODE		
D3308	MA8150/M/-X	Z DIODE		
D3701	1SS355-X	SI DIODE		
D3702	RGP10J-04TS-T3	SI DIODE		
D3703	RGP10J-04TS-T3	SI DIODE		
C3001	QETM2EM-476	E CAPACITOR	47uF 250V M	
C3002	QETM2EM-476	E CAPACITOR	47uF 250V M	
C3004	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
⚠C3009	QFZ9027-103	MM CAPACITOR	0.01uF 1000V K	
C3011	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C3101	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C3102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3103	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3105	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C3106	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C3109	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C3110	NCZ1008-473X	C CAPACITOR	0.047uF 250V K	
C3112	QFZ0197-334	MPP CAPACITOR	0.33uF 250V J	
C3113	NCZ1008-473X	C CAPACITOR	0.047uF 250V K	
C3201	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C3202	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3203	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3205	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C3206	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C3209	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C3210	NCZ1008-473X	C CAPACITOR	0.047uF 250V K	
C3212	QFZ0197-334	MPP CAPACITOR	0.33uF 250V J	
C3213	NCZ1008-473X	C CAPACITOR	0.047uF 250V K	
C3301	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C3302	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3303	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3305	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C3306	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C3309	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C3310	NCZ1008-473X	C CAPACITOR	0.047uF 250V K	
C3312	QFZ0197-334	MPP CAPACITOR	0.33uF 250V J	
C3313	NCZ1008-473X	C CAPACITOR	0.047uF 250V K	
C3701	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C3702	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C3703	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C3704	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C3707	QFN32DK-103	M CAPACITOR	0.01uF 200V K	
C3708	QFN32DK-103	M CAPACITOR	0.01uF 200V K	
C3709	QETN2EM-105Z	E CAPACITOR	1uF 250V M	
C3710	QETN2CM-226Z	E CAPACITOR	22uF 160V M	
C3711	QETN2CM-226Z	E CAPACITOR	22uF 160V M	

⚠Ref No.	Part No.	Part Name	Description	Local
C3712	QFN31HJ-222Z	M CAPACITOR	2200pF 50V J	
C3713	QFN31HJ-222Z	M CAPACITOR	2200pF 50V J	
C3716	QCS32HJ-330Z	C CAPACITOR	33pF 500V J	
C3717	QFN32DK-103	M CAPACITOR	0.01uF 200V K	
C3718	QFN32DK-103	M CAPACITOR	0.01uF 200V K	
C3719	QCB32HK-103	C CAPACITOR	0.01uF 500V K	
C3720	QCB32HK-102Z	C CAPACITOR	1000pF 500V K	
R3009	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
R3010	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R3011	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D	
R3012	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R3028	QRC121K-102Z	COMP RESISTOR	1kΩ 1/2W K	
R3029	QRE121J-105Y	C RESISTOR	1MΩ 1/2W J	
R3101	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3102	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3103	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3104	QRL039J-223	OMF RESISTOR	22kΩ 3W J	
R3105	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3107	QRC121K-271Z	COMP RESISTOR	270Ω 1/2W K	
R3109	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R3110	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3112	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3113	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3201	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3202	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3203	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3204	QRL039J-223	OMF RESISTOR	22kΩ 3W J	
R3205	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3206	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3207	QRC121K-271Z	COMP RESISTOR	270Ω 1/2W K	
R3209	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R3210	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3212	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3213	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3301	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3302	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3303	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3304	QRL039J-223	OMF RESISTOR	22kΩ 3W J	
R3305	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3307	QRC121K-271Z	COMP RESISTOR	270Ω 1/2W K	
R3309	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R3310	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3312	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3313	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3702	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R3703	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3704	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3705	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R3706	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3707	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
⚠R3710	QRJ146J-182X	UNF C RESISTOR	1.8kΩ 1/4W J	
⚠R3711	QRE121J-473Y	C RESISTOR	47kΩ 1/2W J	
⚠R3712	QRE121J-473Y	C RESISTOR	47kΩ 1/2W J	
⚠R3713	QRJ146J-182X	UNF C RESISTOR	1.8kΩ 1/4W J	
⚠R3714	QRJ146J-470X	UNF C RESISTOR	47Ω 1/4W J	
⚠R3715	QRJ146J-470X	UNF C RESISTOR	47Ω 1/4W J	
R3716	QRT029J-8R2	MF RESISTOR	8.2Ω 2W J	
R3719	QRG01GJ-180	OMF RESISTOR	18Ω 1W J	
R3720	QRL039J-220	OMF RESISTOR	22Ω 3W J	
R3721	QRL039J-220	OMF RESISTOR	22Ω 3W J	
R3722	QRL039J-220	OMF RESISTOR	22Ω 3W J	
R3723	QRL039J-220	OMF RESISTOR	22Ω 3W J	
R3724	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3725	QRL039J-220	OMF RESISTOR	22Ω 3W J	
L3001	QQL26AJ-102Z	PEAKING COIL	1mH J	
L3002	QQL26AJ-102Z	PEAKING COIL	1mH J	
L3003	QQL26AJ-102Z	PEAKING COIL	1mH J	
L3004	QQL26AJ-102Z	PEAKING COIL	1mH J	
L3101	QQL244K-2R2Z	PEAKING COIL	2.2uH K	
L3201	QQL244K-2R2Z	PEAKING COIL	2.2uH K	
L3301	QQL244K-2R2Z	PEAKING COIL	2.2uH K	
CN300A	QJB003-044024	SIN ID C-B WIRE		
CN300E	WJK0164-001A	E-SI C WIRE C-B		
CN300J	QJB003-064011	SIN ID C-B WIRE		
CN30E2	QUB130-38A6AS	SIN TWIST WIRE		
CN30E8	QUB130-38A6AS	SIN TWIST WIRE		
CN30VM	WJK0167-001A	E-SI C WIRE C-B		
⚠FR3101	QRZ9009-470	FUSI RESISTOR	47Ω 1/2W J	
⚠FR3201	QRZ9009-470	FUSI RESISTOR	47Ω 1/2W J	
⚠FR3301	QRZ9009-470	FUSI RESISTOR	47Ω 1/2W J	
H3101	LC31930-001A	HEAT SINK/AL-F/		
H3201	LC31930-001A	HEAT SINK/AL-F/		
H3301	LC31930-001A	HEAT SINK/AL-F/		
H3705	CEHS12B-002Q	HEAT SINK		
H3706	CEHS12B-002Q	HEAT SINK		
K3701	QQR1114-001Z	FERRITE BEADS		
K3702	QQR0582-001Z	FERRITE BEADS		
SG3001	QAF0056-501Z	SURGE ABSORBER	500V M	
SG3101	QAF0056-501Z	SURGE ABSORBER	500V M	
SG3201	QAF0056-501Z	SURGE ABSORBER	500V M	
SG3301	QAF0056-501Z	SURGE ABSORBER	500V M	
⚠SK3001	QNZ0663-001	CRT SOCKET		

LINE FILTER P.W. BOARD ASS'Y (SSB-9076A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
D9911	1SR35-400A-T2	SI DIODE		
D9912	1SR35-400A-T2	SI DIODE		
D9913	1SR35-400A-T2	SI DIODE		
D9914	1SR35-400A-T2	SI DIODE		
D9921	1SR35-400A-T2	SI DIODE		
⚠C9901	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K	
⚠C9902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K	
⚠C9903	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K	
C9911	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
C9921	QETM1HM-108	E CAPACITOR	1000uF 50V M	
⚠R9901	QRZ9041-275	C RESISTOR	2.7MΩ 1/2W K	
⚠T9911	QQT0382-001	POWER TRANSF		
CN900B	QGA7901C1-02	CONNECTOR	W-B (1-2)	
CN900F	QGA2501C5-04Z	CONNECTOR	W-B (1-4)	
⚠F9901	QMF61U1-7R0-S	FUSE	7A AC125V	
⚠LF9901	QQR1407-001	LINE FILTER		
⚠LF9902	QQR1407-001	LINE FILTER		
⚠LF9903	QQR1159-001	LINE FILTER		
⚠VA9901	ERZV10V621CS	ZNR		

DEF OSC P.W. BOARD ASS'Y (SSB0H076A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC0101	LA7860M-X	IC		
IC0102	BA12FP-X	IC		
IC0161	AN5441SA-W	IC		
IC0162	BA10393F-XE	IC		
IC0163	AN7805F	IC		
IC0212	CXA1875AM-X	IC		
Q0101	2SC3928A/QR/-X	SI TRANSISTOR		
Q0102	2SC3928A/QR/-X	SI TRANSISTOR		
Q0131	2SC3928A/QR/-X	SI TRANSISTOR		
Q0132	2SC3928A/QR/-X	SI TRANSISTOR		
Q0162	2SC3928A/QR/-X	SI TRANSISTOR		
Q0167	2SC3928A/QR/-X	SI TRANSISTOR		
Q0168	2SC3928A/QR/-X	SI TRANSISTOR		
Q0751	2SC3928A/QR/-X	SI TRANSISTOR		
Q0752	2SC3928A/QR/-X	SI TRANSISTOR		
Q0753	2SC4632	POW TRANSISTOR		
D0164	1SS355-X	SI DIODE		
D0165	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D0170	1SS355-X	SI DIODE		
D0171	1SS355-X	SI DIODE		
D0221	1SS355-X	SI DIODE		
D0222	1SS355-X	SI DIODE		
D0223	MA8051/L/-X	Z DIODE		
D0321	1SS355-X	SI DIODE		
D0751	ES1F-LFG2	SI DIODE		
D0752	ES1F-LFG2	SI DIODE		
C0102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C0103	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C0104	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C0106	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C0107	NDC21HJ-122X	C CAPACITOR	1200pF 50V J	
C0108	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C0109	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	

⚠Ref No.	Part No.	Part Name	Description Local
C0110	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C0111	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C0112	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C0113	NDC21HJ-122X	C CAPACITOR	1200pF 50V J
C0114	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C0115	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C0116	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0117	QEHR1EM-227Z	E CAPACITOR	220uF 25V M
C0118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0119	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C0120	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C0121	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C0122	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0123	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0124	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0131	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C0132	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C0133	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C0134	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C0135	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C0136	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C0137	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C0138	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C0161	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C0162	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0163	QETN1AM-477Z	E CAPACITOR	470uF 10V M
C0164	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0165	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0166	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C0167	QFN31HJ-222Z	M CAPACITOR	2200pF 50V J
C0168	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0169	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0170	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0171	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J
C0172	QFVF1HJ-105Z	MF CAPACITOR	1uF 50V J
C0173	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C0175	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C0176	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J
C0178	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0179	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0180	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0181	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0182	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0189	NCB21HK-103X	C CAPACITOR	0.01uF 50V K
C0212	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C0221	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C0222	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C0321	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C0751	QFLC1HJ-563Z	M CAPACITOR	0.056uF 50V J
C0752	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C0753	QFZ0196-562	MPP CAPACITOR	5600pF 1.5kV H
C0761	QFZ0122-682	MPP CAPACITOR	6800pF 1.8kV H
C0762	QCZ0122-471	C CAPACITOR	470pF 2kV K
C0763	QCZ0122-471	C CAPACITOR	470pF 2kV K
R0101	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0103	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R0104	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0105	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R0106	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R0107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0109	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R0110	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R0111	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
R0112	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
R0113	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R0114	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R0115	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D
R0116	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
R0117	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0120	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R0121	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0122	QRG01GJ-470	OMF RESISTOR	47Ω 1W J
R0123	QRK126J-101X	UNF C RESISTOR	100Ω 1/2W J
R0126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0129	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D
R0131	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0133	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R0134	NRSA63D-334X	MG RESISTOR	330kΩ 1/16W D
R0137	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0139	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R0140	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0141	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0142	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0143	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R0161	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0162	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0163	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0164	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0167	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0168	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0169	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R0170	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0171	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R0172	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0174	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0175	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0176	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R0177	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R0178	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R0179	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D
R0180	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D
R0182	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0183	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0184	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D
R0185	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R0186	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0187	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0188	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D
R0189	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0190	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R0216	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0217	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0222	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R0223	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0224	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0227	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0228	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0230	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R0321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0326	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R0327	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R0328	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R0329	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R0330	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R0751	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R0752	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0753	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R0754	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0755	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R0756	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R0757	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R0761	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R0762	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R0763	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R0764	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R0765	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
L0101	QQL244K-470Z	PEAKING COIL	47uH K
L0103	NQL092K-100X	COIL	10uH K
L0104	NQL092K-100X	COIL	10uH K
L0105	QQL01BK-101Z	PEAKING COIL	100uH K
CN0008	QGB1505K1-35	CONNECTOR	B-B (1-35)
CN000L	QUB572-20FXPP	SIN TWIST WIRE	
CN00S4	QGA2501F1-03	CONNECTOR	W-B (1-3)

FRONT CONTROL P.W. BOARD ASS'Y (SSB0L076A-M2)

⚠Ref No.	Part No.	Part Name	Description Local
IC0702	MM1437AF-X	IC	
IC0704	CXA1875AM-X	IC	
Q0701	2SC3928A/QR/-X	SI TRANSISTOR	
Q0717	2SD601A/QR/-X	TRANSISTOR	
Q0901	2SA562TM/Y/-T	TRANSISTOR	
Q0902	2SC1959/Y/-T	TRANSISTOR	
Q0903	2SA562TM/Y/-T	TRANSISTOR	
Q0904	2SC1959/Y/-T	TRANSISTOR	
Q0905	2SD601A/QR/-X	TRANSISTOR	
Q0906	2SD601A/QR/-X	TRANSISTOR	
Q0907	2SD601A/QR/-X	TRANSISTOR	
Q0908	2SD601A/QR/-X	TRANSISTOR	
Q0921	2SA562TM/Y/-T	TRANSISTOR	
Q0922	2SC1959/Y/-T	TRANSISTOR	
Q0923	2SA562TM/Y/-T	TRANSISTOR	
Q0924	2SC1959/Y/-T	TRANSISTOR	
Q0925	2SD601A/QR/-X	TRANSISTOR	
Q0926	2SD601A/QR/-X	TRANSISTOR	
Q0927	2SD601A/QR/-X	TRANSISTOR	

⚠Ref No.	Part No.	Part Name	Description	Local
Q0928	2SD601A/QR/-X	TRANSISTOR		
D0701	SEL2E10W	LED	POWER	
D0703	MA8068-X	CHIP ZENER DIODE		
D0708	MA8051/M/-X	Z DIODE		
D0714	MA8082/M/-X	Z DIODE		
D0735	MA8082/M/-X	Z DIODE		
C0702	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C0703	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C0704	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C0711	QETN1CM-336Z	E CAPACITOR	33uF 16V M	
C0712	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C0713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C0901	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C0902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C0903	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C0904	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C0921	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C0922	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R0701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0707	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R0717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R0718	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R0722	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R0726	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R0729	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R0732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R0738	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0901	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R0902	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R0903	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R0904	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R0906	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R0907	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R0908	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R0909	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R0910	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R0911	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R0913	QRL029J-120	OMF RESISTOR	12Ω 2W J	
R0914	QRL029J-120	OMF RESISTOR	12Ω 2W J	
R0921	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R0922	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R0923	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R0924	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R0926	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R0927	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R0928	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R0929	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R0930	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R0931	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R0935	QRL029J-120	OMF RESISTOR	12Ω 2W J	
R0936	QRL029J-120	OMF RESISTOR	12Ω 2W J	
CN000R	QGA2501C5-03Z	CONNECTOR	W-B (1-3)	
CN000Y	QGF1201C2-13	CONNECTOR	FFC/FPC (1-13)	
CN00G1	QGF1201C2-25	CONNECTOR	FFC/FPC (1-25)	
CN00H1	QGF1201C2-13	CONNECTOR	FFC/FPC (1-13)	
CN00SN	QGA2501C5-04Z	CONNECTOR	W-B (1-4)	
CN00SW	QGF1201C2-13	CONNECTOR	FFC/FPC (1-13)	
S0708	QSW0797-001	TACT SWITCH	POWER	

FRONT JACK P.W. BOARD ASS'Y (SSB0L176A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
D1401	MTZJ8.2B-T2	Z DIODE		
D1402	MA8100/M/-X	Z DIODE		
D1403	MA8100/M/-X	Z DIODE		
D1404	MA8100/M/-X	Z DIODE		
D1405	MA8100/M/-X	Z DIODE		
D1406	MA8100/M/-X	Z DIODE		
C1442	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C1443	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C1444	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1445	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1446	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R1401	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1402	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R1403	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R1404	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1405	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1411	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1412	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1413	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1414	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1415	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1416	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1417	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1418	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1419	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1420	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN100Y	QGF1201C2-13	CONNECTOR	FFC/FPC (1-13)	
J1401	QMCC004-C01	MINI DIN JACK	S IN	
J1402	QNN0370-001	PIN JACK	V/L/R IN	

FRONT SW P.W. BOARD ASS'Y (SSB0L276A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
R2101	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2102	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2103	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2104	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2755	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2759	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2762	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN20SE	QGB2542K1-08	CONNECTOR	B-B (1-8)	
CN20SW	QGF1201C2-13	CONNECTOR	FFC/FPC (1-13)	
S2101	QSW0619-003Z	TACT SWITCH	CH+	
S2102	QSW0619-003Z	TACT SWITCH	VOL-	
S2103	QSW0619-003Z	TACT SWITCH	VOL+	
S2104	QSW0619-003Z	TACT SWITCH	INPUT	
S2105	QSW0619-003Z	TACT SWITCH	MENU	
S2106	QSW0619-003Z	TACT SWITCH	CH-	

FRONT SENSOR P.W. BOARD ASS'Y (SSB0L476A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC4703	GP1UM281QK	IR DETECT UNIT	38kHz	
C4762	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
R4701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN40SE	QGB2542J1-08	CONNECTOR	B-B (1-8)	

RECEIVER P.W. BOARD ASS'Y (SSB0R276A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC0101	L7805CP	IC		
IC0201	CXA2134Q-X	IC		
IC0501	RC4558D-X	IC		
IC0531	RC4558D-X	IC		
IC0561	CD4066BE	IC		
IC0701	M62320FP-X	IC		
Q0101	2SC3928A/QR/-X	SI TRANSISTOR		
Q0102	2SA1530A/QR/-X	SI TRANSISTOR		
Q0103	2SC3928A/QR/-X	SI TRANSISTOR		
Q0531	2SC3928A/QR/-X	SI TRANSISTOR		
Q0532	2SA1530A/QR/-X	SI TRANSISTOR		
Q0561	2SA1530A/QR/-X	SI TRANSISTOR		
Q0562	2SC3928A/QR/-X	SI TRANSISTOR		
Q0563	2SA1530A/QR/-X	SI TRANSISTOR		
Q0564	2SC3928A/QR/-X	SI TRANSISTOR		
Q0565	UN2212-X	TRANSISTOR		
Q0566	UN2212-X	TRANSISTOR		
Q0601	2SC3311A/QR/-T	TRANSISTOR		
Q0602	2SC3311A/QR/-T	TRANSISTOR		
Q0701	2SC3928A/QR/-X	SI TRANSISTOR		
Q0702	2SA1530A/QR/-X	SI TRANSISTOR		

⚠Ref No.	Part No.	Part Name	Description Local
D0201	MA8082/M/-X	Z DIODE	
D0202	MA8082/M/-X	Z DIODE	
D0531	MA8100/M/-X	Z DIODE	
D0561	MA8100/M/-X	Z DIODE	
D0562	MA8100/M/-X	Z DIODE	
D0563	1SS355-X	SI DIODE	
D0601	1SS355-X	SI DIODE	
D0602	1SS355-X	SI DIODE	
D0701	1SS355-X	SI DIODE	
C0102	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C0103	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C0107	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C0108	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C0201	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C0202	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C0203	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C0204	NCB31HK-562X	C CAPACITOR	5600pF 50V K
C0205	NCB31HK-123X	C CAPACITOR	0.012uF 50V K
C0206	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C0207	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C0208	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C0209	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C0210	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C0211	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C0212	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C0213	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C0214	NCB31HK-272X	C CAPACITOR	2700pF 50V K
C0215	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C0216	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C0217	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C0218	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C0219	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C0220	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0221	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C0222	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C0223	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0224	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C0225	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C0226	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C0227	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C0228	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C0501	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C0502	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C0503	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C0504	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C0531	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C0532	NCB31CK-683X	C CAPACITOR	0.068uF 16V K
C0533	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C0534	NCB31HK-183X	C CAPACITOR	0.018uF 50V K
C0535	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C0536	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C0537	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C0561	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C0562	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C0563	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C0601	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
C0602	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
C0701	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C0702	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0703	NDC31HJ-820X	C CAPACITOR	82pF 50V J
C0704	NDC31HJ-820X	C CAPACITOR	82pF 50V J
R0102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0109	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0112	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R0113	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0114	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0118	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R0201	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0202	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0203	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R0204	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R0205	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R0206	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R0207	NRSA63F-623X	MG RESISTOR	62kΩ 1/16W F
R0209	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0210	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0211	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0213	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J
R0214	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R0501	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0502	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0503	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R0504	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R0505	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R0506	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0507	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R0508	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0531	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0532	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R0533	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0534	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R0535	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0536	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0537	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R0538	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0539	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0540	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0541	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0543	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0544	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0561	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0562	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0563	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R0564	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R0565	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R0566	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R0567	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0568	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0569	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0570	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0573	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R0574	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R0575	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R0577	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0579	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0580	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R0601	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0602	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R0603	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0604	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R0607	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R0610	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R0701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0702	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R0703	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R0704	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0706	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R0707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0708	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0709	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0710	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
L0102	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
CN0005	QGB1505K1-15	CONNECTOR	B-B (1-15)
CN0006	QGB1505K1-35	CONNECTOR	B-B (1-35)
CN000M	QJB003-043414	SIN ID C-B WIRE	
CN000S	QGA2501C5-08	CONNECTOR	W-B (1-8)
CN00S3	QGA2501F1-03	CONNECTOR	W-B (1-3)
J0501	QNN0550-001	PIN JACK	AUDIO
J0601	CEMT019-001	SP TERMINAL	SPEAKER IN
LC0101	QQR1199-001	EMI FILTER	
RY0601	QSK0133-001	RELAY	
RY0602	QSK0133-001	RELAY	
⚠TU0102	QAU0303-001	TUNER	MAIN
UD0102	QAU0283-001	RF SPLITTER	75Ω 44MHz-872MHz

DIGITAL INPUT MODULE P.W. BOARD ASS'Y (34WP84CP-S)

⚠Ref No.	Part No.	Part Name	Description	Local
MD001	34WP84CP-S	DIGITAL INPUT MODULE PWB		

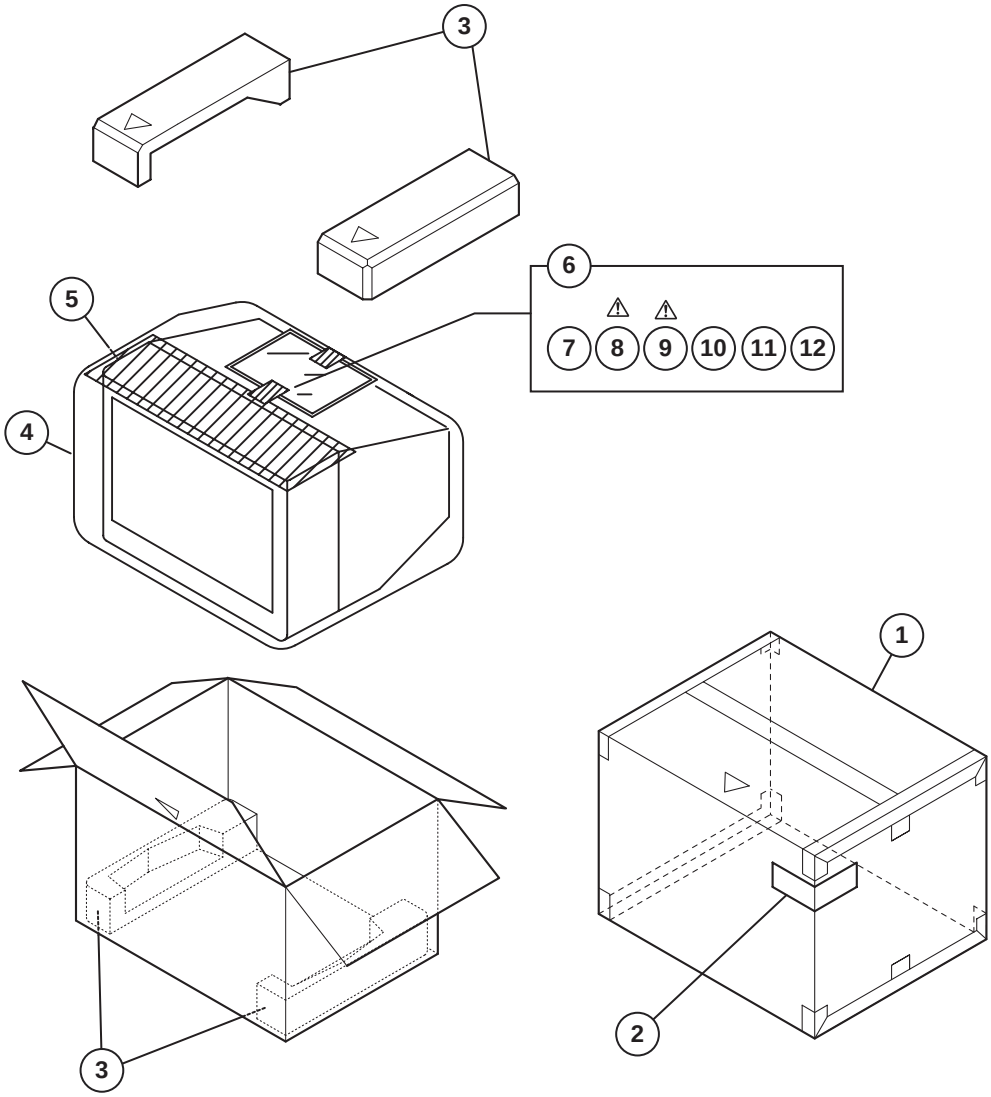
MI-COM & DIST MODULE P.W. BOARD ASS'Y (SSB0D076A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
MD001	SSB0D076A-M2	MI-COM & DIST MODULE PWB		

REMOTE CONTROL UNIT PARTS LIST (RM-C11G-1H)

⚠ Ref.No.	Part No.	Part Name	Description	Local
	UR77EC1403A	BATEERY COVER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	LC10181-035A-A	PACKING CASE		
	2	CM36616-001-A	CORNER LABEL		
	3	LC11591-002A-A	CUSHION ASSY	4pcs in 1set	
	4	CP30056-A04-A	POLY BAG		
	5	CP30055-A02-A	TOP COVER		
	6	QPA02503505	POLY BAG	25cm x 35cm	
	7	RM-C11G-1H	REMOCON UNIT		
⚠	8	LCT1451-001A-A	INST BOOK	English	
⚠	9	LCT1493-001A-A	INST BOOK	French	
	10	BT-51028-2Q	REGISTRATION C		
	11	BT-52006-2Q	WARRANTY CARD		
	12	----------	DRY BATTERY	R6P/AA(x2)	